

Mathematical Reviews

Annual Index — 1999

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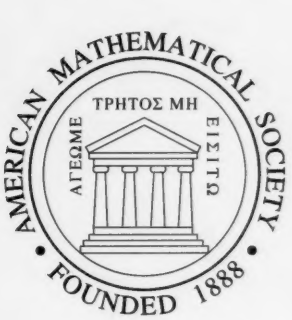
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58A03 Topos-theoretic approach to differentiable manifolds

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58A05 Differentiable manifolds, foundations

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58A07 Real-analytic and Nash manifolds [see also 14P20, 32C07]

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58A10 Differential forms

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58A12 de Rham theory [see also 14Fxx]

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58A14 Hodge theory [see also 14C30, 14Fxx, 32J25, 32S35]

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58A15 Exterior differential systems (Cartan theory)

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Pappas, George J. (*with* Lygeros, John; Tilbury, Dawn; Sastry, S. Shankar) Exterior differential systems in control and robotics. **99j:58012**
Perelli Cippo, Claudio Les espaces fibrés des drapeaux intégraux ordinaires et caractéristiques d'un système différentiel extérieur sur une variété. (English, French and Polish summaries) [Fiber spaces of ordinary and characteristic integral flags of an exterior differential system on a manifold] **99d:58012**
— *see also* **Bigolin, Bruno, 99j:58010**
Prykarpatsky, Y. A. *see* **Blackmore, D. L.; et al., 99a:58005**
Ramakrishna, Viswanath On degenerate Monge-Ampère equations. (English summary) **99j:58013**
Samulyak, R. V. *see* **Blackmore, D. L.; et al., 99a:58005**
Sastry, S. Shankar *see* **Pappas, George J.; et al., 99j:58012**
Tilbury, Dawn *see* **Pappas, George J.; et al., 99j:58012**
Tunitskiĭ, D. V. On the contact equivalence of Monge-Ampère equations. (Russian. English and Russian summaries) **99m:58011**
Zakalyukin, Vladimir M. Concave Darboux theorem. (English and French summaries) **99k:58007b**

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Clelland, Jeanne Nielsen Geometry of conservation laws for a class of parabolic PDE's. II. Normal forms for equations with conservation laws. (English summary) **99d:35074**
Lisle, Ian G. (*with* Reid, Gregory J.) Geometry and structure of Lie pseudogroups from infinitesimal defining systems. (English summary) **99h:58206**
Murray, Richard M. *see* **van Nieuwstadt, Michiel J.; et al., 99f:93034**
van Nieuwstadt, Michiel J. (*with* Rathinam, M.; Murray, Richard M.) Differential flatness and absolute equivalence of nonlinear control systems. (English summary) **99f:93034**
Rathinam, M. *see* **van Nieuwstadt, Michiel J.; et al., 99f:93034**
Reid, Gregory J. *see* **Lisle, Ian G., 99h:58206**
Spring, David ★ Convex integration theory. (English summary) **99e:58024**

58A17 Pfaffian systems

Bradáč, Ivan Automorphisms of spatial curves. (English summary) **99b:58014**
Demenchuk, A. K. Necessary and sufficient conditions for the existence of periodic solutions of linear nonhomogeneous Pfaffian systems. (Russian. Russian summary) **99b:58015**
Gorbuzov, V. N. An estimate for the number of compact leaves of foliations defined by differential equations. (Russian. Russian summary) **99m:58012**
Jakubczyk, Bronisław (*with* Zhitomirskiĭ, M. Ya.) Odd-dimensional Pfaffian equations: reduction to the hypersurface of singular points. (English and French summaries) **99e:58003**
Vosylius, R. Inner connections of systems of partial differential equations. I. (Russian. Lithuanian summary) **99m:58013**
— Inner connections of systems of partial differential equations. II. (Russian. Lithuanian summary) **99m:58014**
Zhitomirskiĭ, M. Ya. *see* **Jakubczyk, Bronisław, 99e:58003**

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Chazal, Frédéric (*with* Lion, Jean-Marie) Une propriété des solutions non spiralantes d'équations différentielles analytiques du plan. (English and French summaries) [A property of nonspiralling solutions of analytic differential equations in the plane] **99j:34009**
Chrastina, Jan ★ The formal theory of differential equations. **99j:58011**
(van den Dries, Lou) *see* **Khovanskiĭ, A. G., 99f:14070**
Gardner, Robert Brown (*with* Kamran, Niky) Exterior differential systems and normal forms of parabolic systems. (English summary) **99b:58013**
(Il'yashenko, Yu. S.) *see* **Khovanskiĭ, A. G., 99f:14070**
Kamran, Niky *see* **Gardner, Robert Brown, 99b:58013**
Khovanskiĭ, A. G. ★ Малочлены. (Russian. Russian summary) [Fewnomials] **99f:14070**
Lion, Jean-Marie *see* **Chazal, Frédéric, 99j:34009**
Lygeros, John *see* **Pappas, George J.; et al., 99j:58012**
Murray, Richard M. *see* **van Nieuwstadt, Michiel J.; et al., 99f:93034**
van Nieuwstadt, Michiel J. (*with* Rathinam, M.; Murray, Richard M.) Differential flatness and absolute equivalence of nonlinear control systems. (English summary) **99f:93034**
Palamodov, V. P. Special functions of several variables. **99m:32045**
Pappas, George J. (*with* Lygeros, John; Tilbury, Dawn; Sastry, S. Shankar) Exterior differential systems in control and robotics. **99j:58012**
Perelli Cippo, Claudio Les espaces fibrés des drapeaux intégraux ordinaires et caractéristiques d'un système différentiel extérieur sur une variété. (English, French and Polish summaries) [Fiber spaces of ordinary and characteristic integral flags of an exterior differential system on a manifold] **99d:58012**
Rathinam, M. *see* **van Nieuwstadt, Michiel J.; et al., 99f:93034**
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58A20 Jets

Albu, I. D. *see* **Opriş, Dumitru, 99e:58004**
Benalili, Mohammed Sur l'ordre global des opérateurs différentiels linéaires Γ-naturels. (French summary) [On the global order of Γ-natural linear differential operators] **99g:58007**
Civelek, Şevket The extended vector bundles. (English summary) **99d:58013**
Doupovec, Miroslav (*with* Kurek, Jan) Liftings of 1-forms to some non-product preserving bundles. (English summary) **99k:58008**
Grigore, Dan Radu (*with* Krupka, Demeter) Invariants of velocities and higher-order Grassmann bundles. (English summary) **99d:58014**
Kolář, Ivan (*with* Tomáš, Jiří) Gauge-natural transformations of some cotangent bundles. (English summary) **99c:58005**
— On holonomicity criteria in second order geometry. (English summary) **99h:58006**
Krupka, Demeter *see* **Grigore, Dan Radu, 99d:58014**
Krupka, Michal Anti-holonomic jets and the Lie bracket. (English summary) **99h:58007**
Kurek, Jan *see* **Doupovec, Miroslav, 99k:58008**
Mikulski, W. M. Natural affinors on r-jet prolongation of the tangent bundle. (English summary) **99h:58008**
Opriş, Dumitru (*with* Albu, I. D.) Geometrical aspects of the covariant dynamics of higher order. (English summary) **99e:58004**
Pătrăşcoiu, Constantin Field of cones on (k, r)-covelocities vector bundle on a manifold. (English summary) **99k:58009**
Shi, Weihui (*with* Tang, Yiming) A numerical invariant of nonlinear partial differential equations. (English summary) **99c:58006**
Shustova, E. P. An interrelation between geometries of a third-order tangent bundle and the Whitney sum. (Russian. English and Russian summaries) **99k:58010**
Tang, Yiming *see* **Shi, Weihui, 99c:58006**
Tomáš, Jiří Natural operators on vector fields on the cotangent bundles of the bundles of (k, r)-velocities. (English summary) **99k:58011**
— *see also* **Kolář, Ivan, 99c:58005**

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Ando, Yoshifumi The homotopy type of the space consisting of regular jets and folding jets in $J^2(n, n)$. **99e:58019**
Bigolin, Bruno (*with* Perelli Cippo, Claudio) Familles intégrales de jets (sur variétés algébriques) et fibrés $\mathscr{B}$ et $\mathscr{E}$. I, II. (English, French and Polish summaries) [Integral families of jets (on algebraic varieties) and bundles $\mathscr{B}$ and $\mathscr{E}$. I, II] **99j:58010**
Bradáč, Ivan Automorphisms of spatial curves. (English summary) **99b:58014**
Bucătaru, Ioan Characterizations of nonlinear connection in higher order geometry. (English summary) **99k:53033**
Carey, Alan L. (*with* Jupp, Peter E.; Murray, Michael K.) The phylon group and statistics. **99k:62006**
Fernández, Antonio^2 *see* **García Pérez, Pedro Luis, 99j:58057**
Galanis, George N. Projective limits of Banach vector bundles. (English summary) **99b:58020**

García Pérez, Pedro Luis (*with* Fernández, Antonio[2]) The Morrison-Greene formalism in relativistic hydrodynamics. **99j:58057**
Grigore, Dan Radu The variational sequence on finite jet bundle extensions and the Lagrangian formalism. (English summary) **99m:58069**
— Variationally trivial Lagrangians and locally variational differential equations of arbitrary order. (English summary) **99m:58070**
Grigoriev, A. (*with* Yakovenko, S.) Topology of generic multijet preimages and blow-up via Newton interpolation. (English summary) **99m:58028**
Han, Chong-Kyu (*with* Yoo, Jae-Nyun) A note on É. Cartan's method of equivalence and local invariants for isometric embeddings of Riemannian manifolds. (English summary) **99d:53014**
Jupp, Peter E. *see* **Carey, Alan L.; et al., 99k:62006**
Kolář, Ivan (*with* Virsik, George) Connections in first principal prolongations. (English summary) **99e:53023**
— (*with* Modugno, Marco) The Frölicher-Nijenhuis bracket on some functional spaces. (English summary) **99c:58009**
Krasil'nikov, P. S. On a Lagrange-Imshenetskiĭ theorem. (Russian) **99g:35026**
Kruglikov, B. S. Obstacles to the construction of pseudoholomorphic mappings. (Russian) **99a:53028**
Krupka, Demeter Variational sequences in mechanics. (English summary) **99b:58071**
Kureš, M. Some properties of connections on iterated tangent bundles. (English summary) **99j:53022**
Lutgen, Jeffrey Higher order flatness of immersed manifolds. (English summary) **99k:57063**
Marsden, Jerrold E. (*with* Shkoller, Steve) Multisymplectic geometry, covariant Hamiltonians, and water waves. (English summary) **99h:58065**
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Yakovenko, S. *see* **Grigoriev, A., 99m:58028**
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58A30 Vector distributions (subbundles of the tangent bundles)

Dubrov, B. M. (*with* Komrakov, B. P.) Symmetries of completely integrable distributions. (English summary) **99e:58005**
Komrakov, B. P. *see* **Dubrov, B. M., 99e:58005**
Li, Hong Jun Hausdorff vector fields. (Chinese. English and Chinese summaries) **99f:58006**
Narmanov, A. Ya. On the geometry of distributions. (Russian. English and Uzbek summaries) **99e:58006**
Popescu, Marcela About some properties of fibre subbundles. (English summary)

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Chrastina, Jan ★ The formal theory of differential equations. **99j:58011**
Dubrov, B. M. (*with* Komrakov, B. P.) Symmetries of completely integrable distributions. (Russian) **99m:58010**
Komrakov, B. P. *see* **Dubrov, B. M., 99m:58010**
Monterde, J. (*with* Muñoz Masqué, Jaime; Sánchez-Valenzuela, O. A.) Geometric properties of involutive distributions on graded manifolds. (English summary) **99c:58007**
Mormul, Piotr (*with* Pelletier, Fernand) Contrôlabilité complète par courbes anormales par morceaux d'une distribution de rang 3 générique sur des variétés connexes de dimension 5 et 6. (English summary) [Complete controllability by piecewise abnormal curves of a generic rank-3 distribution on connected manifolds of dimension 5 and 6] **99b:58068**
Muñoz Masqué, Jaime *see* **Monterde, J.; et al., 99c:58007**
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Prástaro, Agostino Quantum and integral (co)bordisms in partial differential equations. (English summary) **99d:58183**
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Vosylius, R. On the theory of differential-geometric connections. II. (Russian. Lithuanian summary) **99a:53021**

58A35 Stratified sets [see also 32S60, 58C27]

Hamm, Helmut A. On stratified Morse theory. **99i:58008**
Orro, Patrice Quelques propriétés de la distance géodésique. (French summary) [Some properties of the geodesic distance] **99e:58007**
Shih, Weishu Stratifications et équations aux dérivées partielles. [Stratifications and partial differential equations] **99b:58016**

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Fukui, Toshizumi (*with* Koike, Satoshi; Shiota, Masahiro) Modified Nash triviality of a family of zero-sets of real polynomial mappings. (English and French summaries) **99m:14112**
Gajer, Paweł Corrigendum: "The intersection Dold-Thom theorem" [Topology **35** (1996), no. 4, 939–967; MR 97i:55013]. **99k:55004**
Grigoriev, A. (*with* Yakovenko, S.) Topology of generic multijet preimages and blow-up via Newton interpolation. (English summary) **99m:58028**
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Shiota, Masahiro *see* **Fukui, Toshizumi; et al., 99m:14112**
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Yakovenko, S. *see* **Grigoriev, A., 99m:58028**
Zakalyukin, Vladimir M. Singularities of the contact of circles with surfaces, and flags. (Russian) **99e:58023**

58A40 Differential spaces

Abdel-Megied, M. (*with* Buchner, Klaus; Gad, R. M. M.) Topologie und Verklebung singulärer Raum-Zeiten. (English summary) [Topology and glueing of singular space-times] **99a:58006**
Buchner, Klaus *see* **Abdel-Megied, M.; et al., 99a:58006** *and* **Gerstner, Manfred, 99e:58008**
Gad, R. M. M. *see* **Abdel-Megied, M.; et al., 99a:58006**
Gerstner, Manfred (*with* Buchner, Klaus) The topology of differential spaces. **99e:58008**

58A50 Supermanifolds and graded manifolds [see also 14A22, 32C11]

Bartocci, Claudio (*with* Bruzzo, Ugo; Hernández Ruipérez, Daniel; Pestov, Vladimir G.) Quotient supermanifolds. (English summary) **99i:58009**
Bruzzo, Ugo *see* **Bartocci, Claudio; et al., 99i:58009**
Cariñena, José F. (*with* Figueroa, Héctor) Geometric formulation of higher-order Lagrangian systems in supermechanics. (English summary) **99a:58007**
Figueroa, Héctor *see* **Cariñena, José F., 99a:58007**
Hernández Ruipérez, Daniel *see* **Bartocci, Claudio; et al., 99i:58009**
Jaskólski, Zbigniew Smooth coalgebras. (English summary) **99k:58012**
Kerner, Richard Extensions of differential calculus with Z_N grading. (English summary) **99d:58015**
Leslie, Joshua A. On a super Lie group structure for the group of G^∞ diffeomorphisms of a compact G^∞ supermanifold. (English summary) **99e:58009**
Monterde, J. (*with* Muñoz Masqué, Jaime; Sánchez-Valenzuela, O. A.) Geometric properties of involutive distributions on graded manifolds. (English summary) **99c:58007**
Muñoz Masqué, Jaime *see* **Monterde, J.; et al., 99c:58007**
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Petroşanu, Dana About some examples in supermathematics. (English and Romanian summaries) **99a:58008**
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Schmitt, Thomas[1] Supergeometry and quantum field theory, or: what is a classical configuration? (English summary) **99c:58008**
Stavracou, T. Theory of connections on graded principal bundles. (English summary) **99i:58010**
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Alekseevskiĭ, D. V. (*with* Cortés Suárez, Vicente; Devchand, Chandrashekar; Semmelmann, U.) Killing spinors are Killing vector fields in Riemannian supergeometry. (English summary) **99k:58025**
Cariñena, José F. Sections along maps in geometry and physics. **99h:58060**
— (*with* Figueroa, Héctor) Hamiltonian versus Lagrangian formulations of supermechanics. (English summary) **99a:58060**
Cortés Suárez, Vicente *see* **Alekseevskiĭ, D. V.; et al., 99k:58025**
Danilov, G. S. Unimodular transformations of supermanifolds and the calculation of multi-loop amplitudes in the superstring theory. **99m:81177**
Devchand, Chandrashekar *see* **Alekseevskiĭ, D. V.; et al., 99k:58025**
Figueroa, Héctor *see* **Cariñena, José F., 99a:58060**
Grigoriev, M. A. (*with* Semikhatov, A. M.) Canonical form of a pair of compatible antibrackets. (English summary) **99b:58094**
Ivanov, Evgeniĭ Alekseevich[2] Harmonic superspace: new directions. (English summary) **99i:81239**
Izquierdo, José M.[1] (*with* Pérez Bueno, J. C.) Poisson structures: old and new. (English summary) **99j:58073**
Kachkachi, M. (*with* Kouadik, S.) Proof of Polyakov conjecture on supercomplex plane. (English summary) **99a:81162**
(King, James R.) *see* **Manin, Yuriĭ Ivanovich, 99e:32001**
(Koblitz, Neal) *see* **Manin, Yuriĭ Ivanovich, 99e:32001**
Kouadik, S. *see* **Kachkachi, M., 99a:81162**
Manin, Yuriĭ Ivanovich ★ Gauge field theory and complex geometry. **99e:32001**
— (*with* Merkulov, Sergei) Semisimple Frobenius (super)manifolds and quantum cohomology of $\mathbf{P}^r$. (English summary) **99f:32032**
Merkulov, Sergei *see* **Manin, Yuriĭ Ivanovich, 99f:32032** *and* **99e:32001**
Onishchik, A. L. A moduli problem related to complex supermanifolds. (English summary) **99g:32010**
— A construction of non-split supermanifolds. (English summary) **99e:32009**
— About derivations and vector-valued differential forms. (English summary) **99j:32032**
Pérez Bueno, J. C. *see* **Izquierdo, José M.[1], 99j:58073**
Semikhatov, A. M. *see* **Grigoriev, M. A., 99b:58094**
Semmelmann, U. *see* **Alekseevskiĭ, D. V.; et al., 99k:58025**
Tuynman, Gijs M. Functions of class C^k without derivatives. (English summary) **99d:46065**

58A99 None of the above, but in this section

Baranovich, A. M. Differential geometrical relations for a class of formal series. (English summary) **99d:58017**

Items with secondary classifications in 58A99

Santilli, Ruggero Maria Isotopies of differential calculus and its application to mechanics and geometries. (English summary) **99i:58044**

58Bxx Infinite-dimensional manifolds

58B10 Differentiability questions

Chu, Cho-Ho (*with* Mellon, Pauline) Jordan structures in Banach spaces and symmetric manifolds. (English summary) **99h:58009**
Kunakovskaya, O. V. On smooth partitions of unity on Banach manifolds. (Russian) **99b:58017**
Mellon, Pauline *see* **Chu, Cho-Ho, 99h:58009**
Serovaĭskiĭ, S. Ya. Extendedly differentiable manifolds. (Russian) **99e:58010**

Items with secondary classifications in 58B10

Babenko, Vladislav F. (*with* Kofanov, V. A.; Pichugov, S. A.) Additive inequalities for intermediate derivatives of differentiable mappings of Banach spaces. (Russian. Russian summary) **99j:46048**
Dubuc, Eduardo J. (*with* Zilber, Jorge C.) Banach spaces in an analytic model of synthetic differential geometry. (French summary) **99h:58003**
Kofanov, V. A. *see* **Babenko, Vladislav F.; et al., 99j:46048**
Pichugov, S. A. *see* **Babenko, Vladislav F.; et al., 99j:46048**
Zilber, Jorge C. *see* **Dubuc, Eduardo J., 99h:58003**

58B12 Questions of holomorphy [see also 32–XX, 46G20]

Lempert, László The Dolbeault complex in infinite dimensions. I. (English summary) **99f:58007**
Vigué, Jean-Pierre Automorphismes analytiques des domaines produits. (English summary) [Analytic automorphisms of product domains] **99b:58018**

Items with secondary classifications in 58B12

González, Manuel (*with* Gutiérrez del Alamo, Joaquín M.) Gantmacher type theorems for holomorphic mappings. (English summary) **99b:46068**
— (*with* Gutiérrez del Alamo, Joaquín M.) Injective factorization of holomorphic mappings. (English summary) **99i:46033**
Gutiérrez del Alamo, Joaquín M. *see* **González, Manuel, 99b:46068** *and* **99i:46033**
Khatskevich, V. A. (*with* Reich, Simeon; Shoikhet, David) Semi-complete holomorphic vector fields on homogeneous open unit balls in Banach spaces. (English summary) **99k:47176**
Monadi, A. On the closedness of the space of holomorphic maps. (English summary) **99c:46049**
Reich, Simeon *see* **Khatskevich, V. A.; et al., 99k:47176**
Shoikhet, David *see* **Khatskevich, V. A.; et al., 99k:47176**
Szałowska, A. *see* **Włodarczyk, K., 99a:46085**
Włodarczyk, K. (*with* Szałowska, A.) Distortion of biholomorphic maps on homogeneous domains in J^*-algebras. **99a:46085**

58B15 Fredholm structures [see also 47A53]

Ratiner, N. M. Properties of bordism classes of framed submanifolds of Fredholm structure. (Russian) **99b:58019**

Items with secondary classifications in 58B15

Khimshiashvili, G. N. Homotopy classes of elliptic transmission problems over C^*-algebras. (English summary) **99m:46161**

58B20 Riemannian, Finsler and other geometric structures [see also 53C20, 53C60]

Albeverio, Sergio A survey of some developments in loop spaces: associated stochastic processes, statistical mechanics, infinite-dimensional Lie groups, topological quantum fields. **99i:58011**
— (*with* Fei, Shao-Ming) Current algebras over manifolds: Poisson algebras, q-deformations and quantization. (English summary) **99j:58014**
Blair, David E. The distance of a metric from the zero tensor. (English summary) **99g:58008**
Fei, Shao-Ming *see* **Albeverio, Sergio, 99j:58014**
Galanis, George N. Projective limits of Banach vector bundles. (English summary) **99b:58020**
Kolář, Ivan (*with* Modugno, Marco) The Frölicher-Nijenhuis bracket on some functional spaces. (English summary) **99c:58009**
Margalef-Roig, J. (*with* Outerelo Domínguez, Enrique; Padrón, Edith) Connections on infinite-dimensional manifolds with corners. (English summary) **99b:58021**
Misiołek, Gerard A shallow water equation as a geodesic flow on the Bott-Virasoro group. (English summary) **99d:58018**
— Exponential maps of Sobolev metrics on loop groups. (English summary) **99j:58015**
Modugno, Marco *see* **Kolář, Ivan, 99c:58009**
Mokhov, O. I. Symplectic and Poisson structures on loop spaces of smooth manifolds, and integrable systems. (Russian) **99j:58016**
Outerelo Domínguez, Enrique *see* **Margalef-Roig, J.; et al., 99b:58021**
Padrón, Edith *see* **Margalef-Roig, J.; et al., 99b:58021**
Papatriantafillou, Maria H. Connections on A-bundles. **99m:58015**
Watanabe, Yodai A geometrical method for the stability analysis of dynamical systems. (English summary) **99f:58008**
Yoshida, Kyo Riemannian curvature on the group of area-preserving diffeomorphisms (motions of fluid) of 2-sphere. (English summary) **99d:58019**

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Andreadis, Ioannis *see* **Pnevmatikos, Spyros; et al., 99b:58100**
Andruchow, Esteban (*with* Corach, Gustavo; Milman, Mario; Stojanoff, Demetrio) Geodesics and interpolation. (English summary) **99c:46063**
— (*with* Corach, Gustavo; Stojanoff, Demetrio) Löwner's theorem and the differential geometry of the space of positive operators. (English and Spanish summaries) **99i:46057**
Borukhov, V. T. The Grassmann manifold of linear infinite-dimensional controlled dynamical systems. (Russian. English and Russian summaries) **99c:93029**
Carson, Trevor R. A logarithmic Sobolev inequality for the free loop group. (English and French summaries) **99g:60108**
Cirelli, Renzo (*with* Gatti, Mauro; Manià, Alessandro) On the nonlinear extension of quantum superposition and uncertainty principles. (English summary) **99k:81131**
Corach, Gustavo *see* **Andruchow, Esteban; et al., 99c:46063** *and* **99i:46057**
Gatti, Mauro *see* **Cirelli, Renzo; et al., 99k:81131**
Liu, Zhang-Ju (*with* Weinstein, Alan; Xu, Ping[1]) Dirac structures and Poisson homogeneous spaces. (English summary) **99g:58053**
Manià, Alessandro *see* **Cirelli, Renzo; et al., 99k:81131**
Martin, Mircea (*with* Salinas, Norberto) The canonical complex structure of flag manifolds in a C^*-algebra. (English summary) **99k:46129**
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Pliakis, Dimitris *see* **Pnevmatikos, Spyros; et al., 99b:58100**
Pnevmatikos, Spyros (*with* Pliakis, Dimitris; Andreadis, Ioannis) Singularités régularisables des équations d'Euler-Lagrange sur une variété hilbertienne. (English and French summaries) [Removable singularities of the Euler-Lagrange equations on a Hilbert manifold] **99b:58100**
Salinas, Norberto *see* **Martin, Mircea, 99k:46129**
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Khesin, Boris A. *see* **Arnol'd, Vladimir Igorevich, 99b:58002**
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58B99 None of the above, but in this section

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— *see also* **Errata: "Submanifolds in the context of infinite-dimensional manifolds with corners", 99m:58027b**

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Errata:
"Submanifolds in the context of infinite-dimensional manifolds with corners" Correction to: "Submanifolds in the context of infinite-dimensional manifolds with corners" [Acta Math. Hungar. **81** (1998), no. 1-2, 21–40; MR 99m:58027a] by P. M. G. Manchón. **99m:58027b**

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Asada, Akira Vector analysis on Sobolev spaces. II. (English summary) **99b:58010**
Azagra, D. (*with* Dobrowolski, Tadeusz) Smooth negligibility of compact sets in infinite-dimensional Banach spaces, with applications. **99m:46027**
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Jaskólski, Zbigniew Smooth coalgebras. (English summary) **99k:58012**
Lyudkovskiĭ, S. V. Embeddings of non-Archimedean Banach manifolds into non-Archimedean Banach spaces. (Russian)
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58Cxx Calculus on manifolds; nonlinear operators [see also 47Hxx]

58C05 Real-valued functions

O'Keeffe, D. The tangent stars of a set, and extensions of functions in Lipschitz classes. (English summary) **99h:58015**
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58C06 Set valued and function-space valued mappings [see also 47H04, 54C60]

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— On estimates for the fractal and Hausdorff dimensions of sets that are invariant under multivalued mappings. (Russian. Russian summary) **99g:47123**
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Smajdor, Wilhelmina Convex differentiable set-valued functions. (English summary) **99h:26020**
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58C07 Continuity properties of mappings

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Kostin, I. N. Relatively unstable invariant sets of nonlinear operators. (English and Russian summaries) **99b:58029**
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58C10 Holomorphic maps [see also 32–XX]

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— (*with* Shoikhet, David) Averages of holomorphic mappings and holomorphic retractions on convex hyperbolic domains. (English summary) **99d:47073**
— (*with* Shoikhet, David) A characterization of holomorphic generators on the Cartesian product of Hilbert balls. (English summary) **99m:46113**
Shoikhet, David *see* **Reich, Simeon, 99b:47088**; **99d:47073** *and* **99m:46113**

58C15 Implicit function theorems; global Newton methods

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Shub, Michael (*with* Smale, Stephen) On the average cost of solving polynomial equations. (*see* **84m:58003**)
Smale, Stephen *see* **Shub, Michael, (84m:58003)**
Yakovenko, S. *see* **Grigoriev, A., 99m:58028**

Items with secondary classifications in 58C15

Castro, Alfonso (*with* Neuberger, J. W.) An inverse function theorem. (English summary) **99k:46071**
Janeczko, S. Classification of Lagrangian stars and their symplectic reductions. (English summary) **99g:58051**
Knoerr, Alan P. A dynamical proof of the method of Lagrange. (English summary) **99g:90124**
Łędzewicz-Kowalewska, Urszula (*with* Schättler, Heinz) A high-order generalization of the Lyusternik theorem. **99k:47158**
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58C20 Differentiation theory (Gateaux, Fréchet, etc.) [see also 26Exx, 46G05]

Lee, Seok Jong (*with* Nel, Louis Daniel[1]) Foundational isomorphisms in continuous differentiation theory. (English summary) **99d:58027**
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Rohde, Andrea On Sard's theorem for nonsmooth functions. (English summary) **99m:58029**

Items with secondary classifications in 58C20

Azé, Dominique (*with* Poliquin, R. A.) Equicalmness and epiderivatives that are pointwise limits. (English summary) **99b:49014**
Bagirov, Adil M. Continuous subdifferential approximation and its construction. (English summary) **99h:49022**
Baier, J. (*with* Jahn, Johannes) On subdifferentials of set-valued maps. (English summary) **99k:49030**
Benoist, Joël Intégration du sous-différentiel proximal: un contre-exemple. (English and French summaries) [Integration of the proximal subdifferential: a counterexample] **99b:49015**
Borwein, Jonathan M. (*with* Moors, Warren B.) Essentially smooth Lipschitz functions: compositions and chain rules. (English summary) **99k:49031**

— (*with* Moors, Warren B.) Null sets and essentially smooth Lipschitz functions. (English summary) **99g:49013**
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Cheng, Li Xin (*with* Shi, Shu Zhong; Wang, Bing Wu; Lee, E. Stanley) Generic Fréchet differentiability of convex functions dominated by a lower semicontinuous convex function. (English summary) **99m:49021**
Clarke, F. H. (*with* Ledyaev, Yu. S.; Stern, Ronald Jay; Wolenski, Peter R.) ★ Nonsmooth analysis and control theory. (English summary) **99a:49001**
— *see also* **Radulescu, M. L., 99h:49027**
Combari, C. (*with* Elhilali Alaoui, A.; Levy, Adam B.; Poliquin, R. A.; Thibault, L.) Convex composite functions in Banach spaces and the primal lower-nice property. (English summary) **99b:49016**
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— *see also* **Matoušková, Eva, 99m:46107**
Zălinescu, C. On some conjectures of S. Simons. (English summary) **99m:49032**
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58C25 Differentiable maps

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Thilliez, Vincent Sur les fonctions composées ultradifférentiables. (English and French summaries) [Ultradifferentiable composite functions] **99e:58018**
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Goncharov, A. P. (*with* Kocatepe, Mefharet) Isomorphic classification of the spaces of Whitney functions. **99a:46038**
Ishikawa, Go-o A relative transversality theorem and its applications. **99b:58030**
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Pankov, M. A. (*with* Polulyakh, E. A.) Critical points of arbitrary mappings from $\mathbf{R}^n$ into $\mathbf{R}^m$. (Russian) **99a:58017**
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Rabover, V. I. On a construction of a smooth extension. (Russian) **99b:26018**
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58C27 Singularities of differentiable maps [see also 14B05, 14E15, 32Sxx]

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— (*with* Goryunov, V. V.; Lyashko, O. V.; Vassiliev, V. A.) ★ Singularity theory. I. **99f:58024**
— On the Legendrian Sturm theory of space curves. (Russian. Russian summary) **99m:58030**
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— (*with* Gasull, Armengol; Torregrosa, Joan) On the relation between index and multiplicity. (English summary) **99j:58024**
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— Singularities with scale threshold and discrete functions exhibiting generic properties. **99k:58022**
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Gao, Shou Ping (*with* Li, Yang Cheng) Strong contact equivalence of multiparameter equivariant bifurcation problems. (Chinese. English and Chinese summaries) **99m:58031**
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Hara, Yasuhiro Singularities of equivariant maps. (Japanese) (*see* **99j:58003**)
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— (*with* Sun, Wei Zhi) Geometric study of quasilinear first order partial differential equations. **99c:58017**
Joets, A. (*with* Monastyrskiĭ, M. I.; Ribotta, R.) Ensembles of singularities generated by surfaces with polyhedral symmetry. (English summary) **99c:58018**
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Moreno, Guillermo G_2 as the solution of a problem of singularity theory. (Spanish. Spanish summary) **99k:58023**
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— (*with* Nogueira, Antonio Carlos) Surfaces in $\mathbf{R}^4$ and duality. **99j:53002**
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58C28 Catastrophes [see also 57R70, 58Exx]

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58C30 Fixed point theorems on manifolds[see also 47H10]

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58C35 Integration on manifolds; measures on manifolds [see also 28Cxx]

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58C50 Analysis on supermanifolds or graded manifolds

Alekseevskiĭ, D. V. (*with* Cortés Suárez, Vicente; Devchand, Chandrashekar; Semmelmann, U.) Killing spinors are Killing vector fields in Riemannian supergeometry. (English summary) **99k:58025**
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58C99 None of the above, but in this section

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58Dxx Spaces and manifolds of mappings (including nonlinear versions of 46Exx)

58D05 Groups of diffeomorphisms and homeomorphisms as manifolds [see also 22E65, 57S05]

Banyaga, Augustin Isomorphisms between classical diffeomorphism groups. (English summary) **99b:58036**
Bouarroudj, S. (*with* Ovsienko, Valentin) Three cocycles on $\mathrm{Diff}(S^1)$ generalizing the Schwarzian derivative. **99c:58020**
Lalonde, François (*with* McDuff, Dusa; Polterovich, Leonid) On the flux conjectures. (English summary) **99e:58025**
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— *see also* **Lalonde, François; et al., 99e:58025**
Rybicki, Tomasz On automorphisms of a Poisson manifold. (English summary) **99g:58016**
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Arnol'd, Vladimir Igorevich (*with* Khesin, Boris A.) ★ Topological methods in hydrodynamics. (English summary) **99b:58002**
Bao, David (*with* Ratiu, Tudor S.) On a maximal torus in the volume-preserving diffeomorphism group of the finite cylinder. (English summary) **99a:58009**
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Siburg, Karl Friedrich Bi-invariant metrics for symplectic twist mappings on $T^*\mathbf{T}^n$ and an application in Aubry-Mather theory. **99g:58055**
— Action-minimizing measures and the geometry of the Hamiltonian diffeomorphism group. **99e:58077**
Tatsuuma, Nobuhiko (*with* Shimomura, Hiroaki; Hirai, Takeshi) On group topologies and unitary representations of inductive limits of topological groups and the case of the group of diffeomorphisms. **99k:22003**
Yoshida, Kyo Riemannian curvature on the group of area-preserving diffeomorphisms (motions of fluid) of 2-sphere. (English summary) **99d:58019**
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58D07 Groups and semigroups of nonlinear operators [see also 17B65, 47D03, 47D06, 47H20]

Colonius, Fritz (*with* Kliemann, Wolfgang; San Martin, Luiz A. B.) Asymptotic problems—from control systems to semigroups. **99k:58027**
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58D10 Spaces of imbeddings and immersions

Bangert, Victor Existence of a complex line in tame almost complex tori. **99j:58030**
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Labourie, François Problèmes de Monge-Ampère, courbes holomorphes et laminations. (English summary) [Monge-Ampère problems, holomorphic curves and laminations] **99e:58027**
Lalonde, François J-holomorphic curves and symplectic invariants. (English summary) **99f:58026**
Liu, Gang Associativity of quantum multiplication. (English summary) **99a:58019**
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Oh, Yong-Geun On the structure of pseudo-holomorphic discs with totally real boundary conditions. (English summary) **99g:58017**
Ruan, Yongbin (*with* Tian, Gang) Higher genus symplectic invariants and sigma models coupled with gravity. **99d:58030**
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Hofer, Helmut H. W. (*with* Wysocki, K.; Zehnder, E.) The dynamics on three-dimensional strictly convex energy surfaces. (English summary) **99m:58089**
Hori, Kentaro *see* **Eguchi, Tohru; et al.**, **99a:32027**
Konderak, Jerzy J. Natural first order Lagrangians for immersions. (English summary) **99k:58053**
Kontsevich, Maxim (*with* Manin, Yuriĭ Ivanovich) Relations between the correlators of the topological sigma-model coupled to gravity. (English summary) **99k:14040**
Li, Jun^1 (*with* Tian, Gang) Algebraic and symplectic geometry of Gromov-Witten invariants. **99j:14004**
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— The structure of pseudo-holomorphic subvarieties for a degenerate almost complex structure and symplectic form on $S^1 \times B^3$. (English summary) **99m:57029**
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58D15 Manifolds of mappings [see also 54C35]

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Asada, Akira Hodge operators of mapping spaces; local study. (English summary) **99h:58021**
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Oh, Yong-Geun Symplectic topology as the geometry of action functional. I. Relative Floer theory on the cotangent bundle. **99a:58032**
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Takegoshi, Kensho A maximum principle for P-harmonic maps with L^q finite energy. (English summary) **99b:58065**

58D17 Manifolds of metrics (esp. Riemannian)

Lang, Serge Fonctions implicites et plongements riemanniens (d'après J. Nash et J. Moser). [Implicit functions and Riemannian embeddings (after J. Nash and J. Moser)] (*see* **99f:00039**)

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Blair, David E. The distance of a metric from the zero tensor. (English summary) **99g:58008**
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58D19 Group actions and symmetry properties

Arnaudon, Marc (*with* Paycha, Sylvie) Regularisable and minimal orbits for group actions in infinite dimensions. (English summary) **99b:58040**
Castrillón López, Marco (*with* Muñoz Masqué, Jaime) Structure symplectique généralisée sur le fibré des connexions. (English and French summaries) [Generalized symplectic structure on the bundle of connections] **99m:58036**
Fels, Mark (*with* Olver, Peter J.) On relative invariants. **99k:58029**
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58D20 Measures (Gaussian, cylindrical, etc.) on manifolds of maps [See 28Cxx]

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Hall, Brian C. (*with* Sengupta, Ambar N.) The Segal-Bargmann transform for path-groups. (English summary) **99a:58020**
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Baez, John C. (*with* Krasnov, Kirill V.) Quantization of diffeomorphism-invariant theories with fermions. (English summary) **99a:83030**
Capitaine, Mireille (*with* Hsu, Elton P.; Ledoux, Michel) Martingale representation and a simple proof of logarithmic Sobolev inequalities on path spaces. (English summary) **99b:60136**
Dorey, Nicholas (*with* Khoze, Valentin V.; Mattis, Michael P.) Supersymmetry and the multi-instanton measure. (English summary) **99h:81206a**
— (*with* Hollowood, Timothy J.; Khoze, Valentin V.; Mattis, Michael P.) Supersymmetry and the multi-instanton measure. II. From $N = 4$ to $N = 0$. (English summary) **99h:81206b**
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Üstünel, Ali Suleyman Stochastic analysis on Lie groups. (English summary) **99m:60018**
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58D25 Equations in function spaces; evolution equations [see also 34Gxx, 35K22, 35R15, 47H15]

Pritula, N. N. The Lie-algebra structure of integrable nonlinear dynamical systems on extended functional manifolds. (Ukrainian. English and Ukrainian summaries) **99k:58030**

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58D27 Moduli problems for differential geometric structures

Acharya, Bobby S. (*with* Figueroa-O'Farrill, José M.; Spence, Bill; O'Loughlin, M.) Euclidean D-branes and higher-dimensional gauge theory. (English summary) **99j:58033**
Andersen, Jørgen Ellegaard New polarizations on the moduli spaces and the Thurston compactification of Teichmüller space. (English summary) **99e:58029**
Bais, F. A. (*with* Schroers, B. J.) Quantisation of monopoles with non-abelian magnetic charge. (English summary) **99c:58023**
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— Some remarks on the symplectic pairing on the moduli space of representations of the fundamental group of surfaces. **99h:58023**
Hu, Xinmin Bubblings of a family of singular pseudo-holomorphic disks. (English summary) **99k:58031**
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Sadun, Lorenzo (*with* Speight, J. M.) Geodesic incompleteness in the $\mathbf{CP}^1$ model on a compact Riemann surface. (English summary) **99m:58039**
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— (*with* Malkin, Anton Z.) The hyperbolic moduli space of flat connections and the isomorphism of symplectic multiplicity spaces. **99g:58020**
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Brooks, Roger The physics inside of topological quantum field theories. (English summary) **99a:58023**
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Andersen, Jørgen Ellegaard New polarizations on the moduli spaces and the Thurston compactification of Teichmüller space. (English summary) **99e:58029**
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Bauer, Michel (*with* Thuillier, Frank) Representatives of the Thom class of a vector bundle. (English summary) **99m:58208**
Blau, Matthias (*with* Hussain, Faheem; Thompson, George) Some general aspects of coset models and topological Kazama-Suzuki models. (English summary) **99e:81218**
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Broda, Bogusław Antisymmetric-tensor gauge theory and polynomial invariants of links. (English summary) **99e:81250**
— Topological contents of 3D Seiberg-Witten theory. **99j:81191**
— (*with* Bakalarska, Małgorzata) Topology of 3-dimensional Seiberg-Witten theory. (English summary) **99k:57066**
Brown, Richard J. Anosov mapping class actions on the SU(2)-representation variety of a punctured torus. (English summary) **99j:58150**
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Hasegawa, Kazuyuki Certain metrics on a principal fiber bundle and variational problems. (English summary) **99e:58056**
Kim, Byung Hak (*with* Kim, In-Bae; Lee, Sun Mi) Conharmonic transformation and critical Riemannian metrics. (English summary) **99f:53036**
Kim, In-Bae *see* **Kim, Byung Hak; et al.**, **99f:53036**
LeBrun, Claude R. On the notion of general type. (English and Italian summaries) **99c:53078**
— *see also* **Gursky, Matthew J.**, **99k:53078**
Lee, Sun Mi *see* **Kim, Byung Hak; et al.**, **99f:53036**
Ma, Jian Guo The Yamabe problem and the first eigenvalue of a compact manifold without boundary. (Chinese. English and Chinese summaries) **99c:53030**
Petean, Jimmy Computations of the Yamabe invariant. (English summary) **99k:53100**
Wang, Jun[5] (*with* Wang, McKenzie Y.) Einstein metrics on S^2-bundles. (English summary) **99b:53072**
Wang, McKenzie Y. *see* **Wang, Jun**[5], **99b:53072**
Yachou, Abderrahim Métriques standard sur une variété complexe compacte. (English and French summaries) [Standard metrics on a compact complex manifold] **99k:32048**

58E12 Applications to minimal surfaces (problems in two independent variables)

Bellettini, Giovanni (*with* Novaga, Matteo; Paolini, Maurizio) An example of three-dimensional fattening for linked space curves evolving by curvature. (English summary) **99j:58048**
Borisovich, A. Yu. (*with* Marzantowicz, Wacław) Bifurcation of the equivariant minimal interfaces in a hydromechanics problem. (English summary) **99c:58035**
— Bifurcation of a capillary minimal surface in a weak gravitational field. (Russian. Russian summary) **99f:58040**
Fierro, Francesca (*with* Goglione, Roberta; Paolini, Maurizio) Numerical simulations of mean curvature flow in the presence of a nonconvex anisotropy. (English summary) **99k:58040**

Goglione, Roberta *see* **Fierro, Francesca; et al., 99k:58040**
Hélein, Frédéric Surfaces à courbure moyenne constante et inégalité de Wente. [Surfaces with constant mean curvature and Wente's inequality] **99c:58036**
Hildebrandt, Stefan (*with* Sauvigny, Friedrich) Minimal surfaces in a wedge. II. The edge-creeping phenomenon. (English summary) **99e:58044**
Huang, Wu-Hsiung (*with* Lin, Chun-Chi) Negatively curved sets on surfaces of constant mean curvature in $\mathbf{R}^3$ are large. (English summary) **99j:58049**
Huisken, Gerhard (*with* Sinestrari, Carlo) Mean curvature flow singularities for mean convex surfaces. (English summary) **99m:58057**
Hwang, Jenn-Fang Catenoid-like solutions for the minimal surface equation. (English summary) **99d:58041**
Ishimura, Naoyuki Self-similar solutions for the Gauss curvature evolution of rotationally symmetric surfaces. **99f:58041**
(Kasue, Atsushi) *see* **Kumura, Hironori, (99a:58003)**
Kumura, Hironori Surface bubbling and convergence of heat kernels (joint work with Atsushi Kasue). (Japanese) (*see* **99a:58003**)
Lin, Chun-Chi *see* **Huang, Wu-Hsiung, 99j:58049**
Marzantowicz, Wacław *see* **Borisovich, A. Yu., 99c:58035**
von der Mosel, Heiko ★ Geometrische Variationsprobleme höherer Ordnung. (German) [Geometric variational problems of higher order] **99g:58027**
Novaga, Matteo *see* **Bellettini, Giovanni; et al., 99j:58048**
Paolini, Maurizio *see* **Bellettini, Giovanni; et al., 99j:58048** *and* **Fierro, Francesca; et al., 99k:58040**
Passaseo, Donato Multiplicity of critical points for some functionals related to the minimal surfaces problem. **99h:58040**
Ritoré, Manuel Index one minimal surfaces in flat three space forms. (English summary) **99h:58041**
Sauvigny, Friedrich *see* **Hildebrandt, Stefan, 99e:58044**
Sinestrari, Carlo *see* **Huisken, Gerhard, 99m:58057**
Sternberg, Peter (*with* Zumbrun, Kevin) A Poincaré inequality with applications to volume-constrained area-minimizing surfaces. (English summary) **99g:58028**
Toda, Masahito Two-dimensional conformally invariant geometric variational problems. (*see* **99a:58003**)
Wienholtz, Daniel ★ Zum Ausschluß von Randverzweigungspunkten bei Minimalflächen. (German) [On the exclusion of boundary branch points of minimal surfaces] **99d:58042**
Wolfson, Jon G. Minimal Lagrangian diffeomorphisms and the Monge-Ampère equation. **99e:58045**
Yoon, Jaihan Existence of a multivortex solution for $\mathrm{SU}(N)_g \times \mathrm{U}(1)_f$ Chern-Simons model in $\mathbf{R}^2/\mathbf{Z}^2$. (English summary) **99j:58050**
Zhai, Jian Heat flow with tangent penalisation converging to mean curvature motion. (English summary) **99j:58051**
Zumbrun, Kevin *see* **Sternberg, Peter, 99g:58028**

Items with secondary classifications in 58E12

Almgren, Fred (*with* Taylor, Jean E.) Soap bubble clusters. **99e:49052**
Arezzo, Claudio Stable complete minimal surfaces in hyper-Kähler manifolds. (English summary) **99e:53086**
Bellettini, Giovanni Some results on minimum barriers for geometric motions of sets. (Italian. English summary) **99a:49048**
— (*with* Novaga, Matteo) Comparison results between minimal barriers and viscosity solutions for geometric evolutions. **99i:35081**
Castillon, Philippe Sur l'opérateur de stabilité des sous-variétés à courbure moyenne constante dans l'espace hyperbolique. [On the stability operator of submanifolds with constant mean curvature in hyperbolic space] **99c:53062**
Chen, Jingyi (*with* Tian, Gang) Minimal surfaces in Riemannian 4-manifolds. **99m:53112**
David, Guy (*with* Semmes, Stephen) Surfaces quasiminimales de codimension 1 et domaines de John. [Quasiminimal surfaces of codimension 1 and John domains] **99h:49054**
Giga, Mi-Ho (*with* Giga, Yoshikazu) Evolving graphs by singular weighted curvature. (English summary) **99j:35118**
Giga, Yoshikazu *see* **Giga, Mi-Ho, 99j:35118**
Grinevich, P. G. (*with* Schmidt, Martin U.) Conformal invariant functionals of immersions of tori into $\mathbf{R}^3$. (English summary) **99k:53112**
Ivochkina, N. M. (*with* Ladyzhenskaya, O. A.) Estimation of the second derivatives on the boundary for surfaces evolving under the action of their principal curvatures. (Russian. Russian summary) **99c:35091**
Kim, Inho Relative isoperimetric inequality and linear isoperimetric inequality for minimal submanifolds. (English summary) **99i:49047**
Kutev, Nikolai (*with* Tomi, F.) Existence and nonexistence for the exterior Dirichlet problem for the minimal surface equation in the plane. **99m:35062**
Ladyzhenskaya, O. A. *see* **Ivochkina, N. M., 99c:35091**
Liang, Fei-Tsen Absolute gradient bounds for nonparametric hypersurfaces of constant mean curvature and the structure of generalized solutions for the constant mean curvature equation. (English summary) **99k:35052**
Liu, Zu Han Existence of global classical solutions of a generalized mean curvature flow equation. (Chinese. English and Chinese summaries) **99k:35075**
Mayer, Uwe F. Two-sided Mullins-Sekerka flow does not preserve convexity. (English summary) **99m:35275**
Montiel, Sebastián Stable constant mean curvature hypersurfaces in some Riemannian manifolds. (English summary) **99g:53066**
Morgan, Frank Immiscible fluid clusters in $\mathbf{R}^2$ and $\mathbf{R}^3$. **99k:49093**
— The hexagonal honeycomb conjecture. (English summary) **99m:52030**
Novaga, Matteo *see* **Bellettini, Giovanni, 99i:35081**
Pérez, Joaquín (*with* Ros, Antonio) The space of complete minimal surfaces with finite total curvature as Lagrangian submanifold. (English summary) **99m:58038**
Preissler, Gabriele ★ Möbius-Differentialgeometrie von Hyperflächen. (German) [Möbius differential geometry of hypersurfaces] **99c:53067**
Ros, Antonio *see* **Pérez, Joaquín, 99m:58038**
Schmidt, Martin U. *see* **Grinevich, P. G., 99k:53112**
Semmes, Stephen *see* **David, Guy, 99h:49054**
Simon, Leon The minimal surface equation. **99b:53014**
Smoczyk, Knut Starshaped hypersurfaces and the mean curvature flow. (English summary) **99c:53033**
Taylor, Jean E. *see* **Almgren, Fred, 99e:49052**
Tian, Gang *see* **Chen, Jingyi, 99m:53112**
Tomi, F. *see* **Kutev, Nikolai, 99m:35062**
Truong, Công Nghê On non-linear elliptic equations and the stability of soap film. (English summary) **99e:35076**
Walter-Koch, I. Equations of mean curvature type on exterior domains. (English summary) **99a:35099**
Wang, Xu-Jia Interior gradient estimates for mean curvature equations. **99f:35055**
Zhao, Pei Biao Stable minimal hypersurfaces in E^n. (English and Chinese summaries) **99k:53120**

58E15 Application to extremal problems in several variables; Yang-Mills functionals [see also 81T13], etc.

Andrews, Ben Monotone quantities and unique limits for evolving convex hypersurfaces. **99a:58041**
Arthur, Kieran (*with* Brihaye, Yves; Tchrakian, D. H.) Interaction energy of generalized abelian Higgs vortices. (English summary) **99c:58037**
Bordemann, Martin (*with* Hoppe, Jens) Diffeomorphism invariant integrable field theories and hypersurface motions in Riemannian manifolds. (English summary) **99g:58029**
Braham, S. P. (*with* Gegenberg, J.) Yang-Mills flow and uniformization theorems. (English summary) **99k:58041**
Brihaye, Yves *see* **Arthur, Kieran; et al., 99c:58037**
Chen, Yun Mei (*with* Shen, Chun-Li) Evolution problem of Yang-Mills flow over 4-dimensional manifold. **99g:58030**
Demoulini, Sophia (*with* Stuart, David M.) Gradient flow of the superconducting Ginzburg-Landau functional on the plane. (English summary) **99c:58038**
Ding, Weiyue (*with* Jost, Jürgen; Li, Jia Yu[1]; Wang, Guofang) An analysis of the two-vortex case in the Chern-Simons Higgs model. (English summary) **99c:58039**
Escher, Joachim (*with* Mayer, Uwe F.; Simonett, Gieri) The surface diffusion flow for immersed hypersurfaces. (English summary) **99f:58042**
Gegenberg, J. *see* **Braham, S. P., 99k:58041**
Giunashvili, Z. A multidimensional variational problem with constraints. (Russian. English and Georgian summaries) **99f:58043**
Godlewski, Piotr Generally-covariant and $\mathrm{GL}(n, \mathbf{R})$-invariant model of field of linear frames interacting with a multiplet of complex scalar fields. (English summary) **99a:58042**
Hoppe, Jens *see* **Bordemann, Martin, 99g:58029**
Ishii, Katsuyuki Regularity and convergence of crystalline motion in the plane. **99f:58044**
Isobe, Takeshi (*with* Marini, Antonella) On topologically distinct solutions of the Dirichlet problem for Yang-Mills connections. (English summary) **99f:58045**
Jost, Jürgen *see* **Ding, Weiyue; et al., 99c:58039**
Katagiri, Minyo Estimate of singularities of the Yang-Mills gradient flow. **99i:58037**
Lassoued, Lotfi A remark on the weak topology and the degree. (English summary) **99g:58031**
Li, Jia Yu[1] *see* **Ding, Weiyue; et al., 99c:58039**
Lu, Qikeng The Yang-Mills fields on the Minkowski space. (English summary) **99m:58058**
Marini, Antonella A topological method for finding non-absolute minima for the Yang-Mills functional with Dirichlet data. (English summary) **99k:58042**
— *see also* **Isobe, Takeshi, 99f:58045**
Mayer, Uwe F. *see* **Escher, Joachim; et al., 99f:58042**
Padilla, Pablo (*with* Tonegawa, Yoshihiro) On the convergence of stable phase transitions. (English summary) **99b:58054**
Palmer, Bennett Stability of the Wulff shape. (English summary) **99b:58055**
Rivière, Tristan A remark on the use of differential forms for the Skyrme problem. (English summary) **99m:58059**
Sandier, Etienne Lower bounds for the energy of unit vector fields and applications. (English summary) **99b:58056**
Schlatter, A. E. (*with* Struwe, Michael; Tahvildar-Zadeh, A. Shadi) Erratum: "Global existence of the equivariant Yang-Mills heat flow in four space dimensions" [Amer. J. Math. **120** (1998), no. 1, 117–128; MR 98k:58063]. **Sengupta, Ambar N.** A Yang-Mills inequality for compact surfaces. (English summary) **99d:58043**
Sergeev, A. G. Vortex equations. (English summary) **99b:58057**
Shen, Chun-Li *see* **Chen, Yun Mei, 99g:58030**
Shen, Yi-Bing (*with* Zhu, Xiao Hua) On stable complete minimal hypersurfaces in $\mathbf{R}^{n+1}$. (English summary) **99c:58040**
Simonett, Gieri *see* **Escher, Joachim; et al., 99f:58042**
Struwe, Michael (*with* Tarantello, Gabriella) On multivortex solutions in Chern-Simons gauge theory. (Italian summary) **99c:58041**
— *see also* **Schlatter, A. E.; et al.**
Stuart, David M. *see* **Demoulini, Sophia, 99c:58038**
Tahvildar-Zadeh, A. Shadi *see* **Schlatter, A. E.; et al.**
Tarantello, Gabriella *see* **Struwe, Michael, 99c:58041**
Tchrakian, D. H. *see* **Arthur, Kieran; et al., 99c:58037**
Tonegawa, Yoshihiro *see* **Padilla, Pablo, 99b:58054**
Wang, Guofang *see* **Ding, Weiyue; et al., 99c:58039**
Zelikin, M. I. A quadratic system of partial differential equations that is associated with the problem of minimizing a multiple integral. (Russian) **99d:58044**
Zhu, Xiao Hua *see* **Shen, Yi-Bing, 99c:58040**

Items with secondary classifications in 58E15

Andersson, Lars Åke (*with* Galloway, Gregory J.; Howard, Ralph) A strong maximum principle for weak solutions of quasi-linear elliptic equations with applications to Lorentzian and Riemannian geometry. (English summary) **99d:35045**
Cao, Huai-Dong (*with* Shen, Ying; Zhu, Shunhui) The structure of stable minimal hypersurfaces in $\mathbf{R}^{n+1}$. (English summary) **99a:53037**

Darinskiĭ, B. M. (*with* Sapronov, Yu. I.) Bifurcations of extremals near a singularity of a multidimensional fold. (Russian) **99a:90200**
Daskalopoulos, Georgios D. (*with* Wentworth, Richard A.) On the Brill-Noether problem for vector bundles. (English summary) **99m:14064**
Ding, Yanheng Infinitely many entire solutions of an elliptic system with symmetry. **99a:35062**
Gaeta, Giuseppe (*with* Morando, Paola) Reducible connections in gauge theories. (English summary) **99i:58022**
Galloway, Gregory J. *see* **Andersson, Lars Åke; et al., 99d:35045**
Groisser, David (*with* Murray, Michael K.) Instantons and the information metric. (English summary) **99b:58042**
— (*with* Parker, Thomas H.) Sharp decay estimates for Yang-Mills fields. **99b:53035**
Howard, Ralph *see* **Andersson, Lars Åke; et al., 99d:35045**
Ivanova, T. A. On infinitesimal symmetries of the self-dual Yang-Mills equations. (English summary) **99m:53045**
Jarvis, Stuart (*with* Norbury, Paul) Degenerating metrics and instantons on the four-sphere. (English summary) **99j:53023**
— Euclidean monopoles and rational maps. **99h:58024**
— Construction of Euclidean monopoles. **99h:58025**
Jimbo, Shuichi (*with* Morita, Yoshihisa) Ginzburg-Landau equation with a variable coefficient in a disk. **99j:35202**
Keel, Markus Global existence for critical power Yang-Mills-Higgs equations in $\mathbf{R}^{3+1}$. (English summary) **99b:58227**
Legaré, M. Reduced SDYM and SDSYM equations in $\mathbf{E}^4$ and $\mathbf{E}^{(2,2)}$. (English summary) **99b:53036**
Leung, Nai-Chung Conan Einstein type metrics and stability on vector bundles. **99a:53022**
Matsukidaira, Junta *see* **Sasa, Narimasa; et al., 99f:58105**
Merabet, Houari Two-component reduction of Nahm's equations and hyper-elliptic solutions. (English summary) **99a:53023**
Morando, Paola *see* **Gaeta, Giuseppe, 99i:58022**
Morita, Yoshihisa *see* **Jimbo, Shuichi, 99j:35202**
Murray, Michael K. *see* **Groisser, David, 99b:58042**
Nergiz, Serdar *see* **Saçlıoğlu, Cihan, 99c:53019**
Norbury, Paul *see* **Jarvis, Stuart, 99j:53023**
Ohta, Yasuhiro *see* **Sasa, Narimasa; et al., 99f:58105**
Parker, Thomas H. *see* **Groisser, David, 99b:53035**
Preitschopf, Christian R. Symmetries and solutions of self-dual Yang-Mills theory. (English summary) **99i:53022**
Saçlıoğlu, Cihan (*with* Nergiz, Serdar) Seiberg-Witten monopole equations and Riemann surfaces. (English summary) **99c:53019**
Sandier, Etienne Locally minimising solutions of $-\Delta u = u(1-|u|^2)$ in $\mathbf{R}^2$. (English summary) **99a:35074**
Sapronov, Yu. I. *see* **Darinskiĭ, B. M., 99a:90200**
Sasa, Narimasa (*with* Ohta, Yasuhiro; Matsukidaira, Junta) Bilinear form approach to the self-dual Yang-Mills equations and integrable systems in $(2+1)$-dimension. (English summary) **99f:58105**
Schoen, Richard M. (*with* Wolfson, Jon G.) Minimizing volume among Lagrangian submanifolds. **99k:53130**
Shen, Ying *see* **Cao, Huai-Dong; et al., 99a:53037**
Smoller, J. A. (*with* Wasserman, A. G.) Extendability of solutions of the Einstein-Yang/Mills equations. (English summary) **99h:58193**
Spruck, Joel (*with* Tchrakian, D. H.; Yang, Yisong) Multiple instantons representing higher-order Chern-Pontryagin classes. (English summary) **99c:53020**
Tchrakian, D. H. *see* **Spruck, Joel; et al., 99c:53020**
Wasserman, A. G. *see* **Smoller, J. A., 99h:58193**
Wentworth, Richard A. *see* **Daskalopoulos, Georgios D., 99m:14064**
Wolfson, Jon G. *see* **Schoen, Richard M., 99k:53130**
Yang, Yisong *see* **Spruck, Joel; et al., 99c:53020**
Zhu, Shunhui *see* **Cao, Huai-Dong; et al., 99a:53037**

58E17 Pareto optimality, etc., applications to economics

Items with secondary classifications in 58E17

Qiu, Qiu Sheng On the locally biorder-convex space and super-efficiency. (English summary) **99m:46009**

58E20 Harmonic maps

Anand, Christopher Kumar A closed form for unitons. **99j:58052**
Asai, Keisui The heat flows of harmonic maps from S^2 to S^2. (English summary) **99e:58046**
Baird, P. (*with* Wood, John C.) Weierstrass representations for harmonic morphisms on Euclidean spaces and spheres. (English summary) **99g:58032**
Barletta, Elisabetta (*with* Dragomir, Sorin) On transversally holomorphic maps of Kählerian foliations. (English summary) **99j:58053**
Borisenko, A. A., Jr. Harmonic morphisms associated with minimal strongly parabolic surfaces in Euclidean space. (Russian. Russian summary) **99b:58058**
Bryant, Robert L. On extremals with prescribed Lagrangian densities. **99a:58043**
Burstall, F. E. (*with* Guest, Martin A.) Harmonic two-spheres in compact symmetric spaces, revisited. **99f:58046**
Călin, O. (*with* Ianuş, Stere) A note on harmonic maps of semi-Riemannian manifolds. (English summary) **99j:58054**
Calinov, Irina-Ana (*with* Gherghe, Cătălin) Pluriharmonic maps on tangent bundles of a Riemannian or Hermitian manifold. (English summary) **99f:58047**
Chen, Bang-Yen (*with* Dillen, Franki; Vrancken, Luc; Verstraelen, Leopold) A variational minimal principle and its applications. (English summary) **99m:58060**
Chen, Jingyi Structures of certain harmonic maps into Kähler manifolds. **99b:58059**
Chen, Qun[1] Harmonic maps with potential from complete manifolds. (English summary) **99m:58061**
— Liouville theorem for harmonic maps with potential. (English summary) **99k:58043**
Cheung, Leung-Fu (*with* Law, Chun-Kong; Leung, Man Chun; McLeod, J. Bryce) Entire solutions of quasilinear differential equations corresponding to p-harmonic maps. **99g:58033**
Chi, Dong Pyo (*with* Kim, Hyun Jung; Kim, Won Kuk) On the existence of solutions of the heat equation for harmonic map. (English summary) **99k:58044**
Daskalopoulos, Georgios D. (*with* Dostoglou, S.; Wentworth, Richard A.) Character varieties and harmonic maps to $\mathbf{R}$-trees. (English summary) **99k:58045**
Dillen, Franki *see* **Chen, Bang-Yen; et al., 99m:58060**
Ding, Weiyue (*with* Wang, You-De) Schrödinger flow of maps into symplectic manifolds. (English summary) **99m:58062**
Donnelly, Harold Harmonic maps with noncontact boundary values. **99f:58048**
Dostoglou, S. *see* **Daskalopoulos, Georgios D.; et al., 99k:58045**
Dragomir, Sorin *see* **Barletta, Elisabetta, 99j:58053**
Duzaar, Frank (*with* Gastel, Andreas) Minimizing p-harmonic maps at a free boundary. (Italian summary) **99e:58047**
— (*with* Kuwert, Ernst) Minimization of conformally invariant energies in homotopy classes. **99d:58045**
Ejiri, Norio The boundary of the space of full harmonic maps of S^2 into $S^{2m}(1)$ and extra eigenfunctions. **99d:58046**
El Soufi, Ahmad (*with* Petit, Robert) Applications harmoniques, applications pluriharmoniques et existence de 2-formes parallèles non nulles. (English summary) [Harmonic and pluriharmonic maps and existence of nonzero parallel 2-forms] **99a:58044**
Eschenburg, J.-H. (*with* Tribuzy, Renato) Associated families of pluriharmonic maps and isotropy. (English summary) **99i:58038**
Fardoun, Ali Stability for the p-energy of the equator map of the ball into an ellipsoid. (English summary) **99c:58042**
Farrell, F. T. (*with* Jones, Lowell Edwin; Ontaneda, P.) Examples of non-homeomorphic harmonic maps between negatively curved manifolds. **99h:58042**
Freire, Alexandre (*with* Müller, Stefan C.; Struwe, Michael) Weak convergence of wave maps from $(1+2)$-dimensional Minkowski space to Riemannian manifolds. (English summary) **99g:58035**
Garza-Hume, C. E. Boundary regularity of p-harmonic maps with free and partially constrained boundary conditions. (English summary) **99j:58055**
Gastel, Andreas Regularity theory for minimizing equivariant (p-)harmonic mappings. **99c:58043**
— Construction of harmonic maps between spheres by joining three eigenmaps. (English summary) **99m:58063**
— *see also* **Duzaar, Frank, 99e:58047**
Gherghe, Cătălin *see* **Calinov, Irina-Ana, 99f:58047**
Gregori, Giovanni Sobolev spaces and harmonic maps between singular spaces. (English summary) **99e:58048**
Grüter, Michael Regularity at the free boundary of two-dimensional stationary harmonic maps. (English and French summaries) **99b:58060**
Guest, Martin A. ★ Harmonic maps, loop groups, and integrable systems. (English summary) **99g:58036**
— *see also* **Burstall, F. E., 99f:58046**
Han, Dong-Soong (*with* Lee, Eun Hwi) Harmonic Gauss map and Hopf fibrations. (English summary) **99f:58049**
— (*with* Yim, Jin-Whan) Unit vector fields on spheres, which are harmonic maps. **99c:58044**
Hardt, Robert (*with* Lin, Fang Hua; Wang, Changyou) The p-energy minimality of $x/|x|$. **99c:58045**
Hungerbühler, Norbert m-harmonic flow. (English summary) **99c:58046**
Ianuş, Stere (*with* Pastore, Anna Maria) Harmonic maps and f-structures with parallelizable kernel. **99m:58064**
— *see also* **Călin, O., 99j:58054**
Inoguchi, Jun-ichi Surfaces in Minkowski 3-space and harmonic maps. **99m:58065**
Jones, Lowell Edwin *see* **Farrell, F. T.; et al., 99h:58042**
Jost, Jürgen Generalized harmonic maps between metric spaces. **99a:58045**
— (*with* Zuo, Kang[1]) Harmonic maps of infinite energy and rigidity results for representations of fundamental groups of quasiprojective varieties. (English summary) **99a:58046**
— (*with* Xu, Chao-Jiang) Subelliptic harmonic maps. (English summary) **99a:58047**
Kang, Tae Ho (*with* Ki, U-Hang; Pak, Jin Suk) On the spectral geometry for the Jacobi operators of harmonic maps into product manifolds. (English summary) **99e:58049**
Ki, U-Hang *see* **Kang, Tae Ho; et al., 99e:58049**
Kim, Hyun Jung *see* **Chi, Dong Pyo; et al., 99k:58044**
Kim, Won Kuk *see* **Chi, Dong Pyo; et al., 99k:58044**
Korevaar, Nicholas J. (*with* Schoen, Richard M.) Global existence theorems for harmonic maps to non-locally compact spaces. **99b:58061**
Kourouma, Moussa Harmonic sections of Riemannian fiber bundles. **99d:58047**
Królikowski, Wiesław Quaternionic mappings and harmonicity. I. (English and Polish summaries) **99d:58048**
Kuwert, Ernst *see* **Duzaar, Frank, 99d:58045**
Lassoued, Lotfi (*with* Lefter, Cătălin) On a variant of the Ginzburg-Landau energy. **99b:58062**
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Lee, Eun Hwi *see* **Han, Dong-Soong, 99f:58049**
Lefter, Cătălin (*with* Rădulescu, Vicenţiu D.) Minimization problems and renormalized energies related to the Ginzburg-Landau equation. (English summary) **99k:58046**
— *see also* **Lassoued, Lotfi, 99b:58062**
Leung, Man Chun Positive solutions of second order quasilinear equations corresponding to p-harmonic maps. **99g:58034**
— *see also* **Cheung, Leung-Fu; et al., 99g:58033**
Li, Jia Yu[1] (*with* Tian, Gang) A blow-up formula for stationary harmonic maps. **99d:58049**
Li, Peter (*with* Wang, Jiaping) Convex hull properties of harmonic maps. **99f:58050**
Li, Zhen Qi Holomorphic 2-spheres in Grassmann manifolds. (English summary) **99m:58066**
Lin, Fang Hua (*with* Wang, Changyou) Energy identity of harmonic map flows from

surfaces at finite singular time. **99k:58047**
— *see also* **Hardt, Robert; et al., 99c:58045**
Loubeau, E. Pseudo-harmonic morphisms. (English summary) **99f:58051**
Mayer, Uwe F. Gradient flows on nonpositively curved metric spaces and harmonic maps. (English summary) **99m:58067**
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Serfaty, Sylvia Solutions stables de l'équation de Ginzburg-Landau en présence de champ magnétique. (English and French summaries) [Stable solutions of the Ginzburg-Landau equation with magnetic field] **99e:35213**

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Tang, Qi Mathematical behavior of solutions of the Ginzburg-Landau system. (English summary) (*see* **99g:35005**)

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58E99 None of the above, but in this section

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58Fxx Ordinary differential equations on manifolds; dynamical systems [see also 28D10, 34Cxx, 54H20]

Anosov, D. V. (*with* Aranson, S. Kh.; Arnol'd, Vladimir Igorevich; Bronshteĭn, I. U.; Grines, V. Z.; Il'yashenko, Yu. S.) ★ Ordinary differential equations and smooth dynamical systems. **99h:58053**

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58F03 One-dimensional dynamics, general symbolic dynamics [see also 26A18]

Abodayeh, K. (*with* Pokrovskiĭ, A. V.) A spectral property for the symbolic dynamical system.
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Wang, Xiao Mei (*with* Li, Bing[3]) Topological conjugacy of a class of mappings of a circle into itself. (Chinese. English and Chinese summaries) **99e:58065**
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Zhang, Xu-Sheng (*with* Vivaldi, Franco) Small perturbations of a discrete twist map. (English and French summaries) **99e:58158**

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58F09 Morse-Smale systems

Bonatti, Ch. (*with* Langevin, R.) Difféomorphismes de Smale des surfaces. (English and French summaries) [Smale diffeomorphisms of surfaces] **99m:58123**

Campos, B. (*with* Martínez Alfaro, J.; Vindel, P.) Links and bifurcations in nonsingular Morse-Smale systems. (English summary) **99f:58110**
Casasayas, J. (*with* Martínez Alfaro, J.; Nunes, Ana Maria) Knots and links in integrable Hamiltonian systems. (English summary) **99f:58111**
Cruz, Ricardo N. (*with* de Rezende, K. A.) Cycle rank of Lyapunov graphs and the genera of manifolds. (English summary) **99f:58112**
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Bronshteĭn, I. U. *see* **Aranson, S. Kh.; et al., 99m:58148**
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Gheiner, Jaques Codimension n flips. (English summary) **99j:58148**
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Li, Weigu *see* **Il′yashenko, Yu. S., 99m:58139**
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Hmissi, Mohamed (*with* Sieveking, Malte) Sur l'existence des courbes de Siegel. (English summary) [Existence of Siegel curves] (*see* **99h:58001**)
Homburg, Ale Jan Heteroclinic bifurcations of Ω-stable vector fields on 3-manifolds. (English summary) **99h:58099**
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Li, Weigu (*with* Zhang, Meirong) [A] rigidity result on conjugacies of families of diffeomorphisms. (English summary) **99i:58089**
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— (*with* Wang, Duo) The C^1 closing lemma for non-singular endomorphisms equivariant under free actions of finite groups. (English summary) **99m:58125**
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Aoki, Nobuo (*with* Moriyasu, Kazumine; Oka, Masatoshi) Differentiable maps having hyperbolic sets. (English summary) **99d:58130**
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— (*with* Markarian, Roberto; Troubetzkoy, S.) Conditionally invariant measures for Anosov maps with small holes. (English summary) **99k:58111**
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Cardoso, Fernando (*with* Cuevas, Claudio) On the hyperbolic Dirichlet to Neumann functional in H^n and S^n. (English summary) **99h:58190**
Choquet-Bruhat, Yvonne Applications d'ondes sur un univers en expansion. (English and French summaries) [Wave maps on expanding universes] **99h:58191**
Cuevas, Claudio *see* **Cardoso, Fernando, 99h:58190**
Flato, Moshé (*with* Sternheimer, Daniel; Simon, Jacques C. H.; Taflin, Erik) Nonlinear relativistic wave equations in general dimensions. (English summary) **99j:58205**
Grillakis, Manoussos G. Energy estimates and the wave map problem. **99f:58205**
Helgason, Sigurdur Radon transforms and wave equations. **99j:58206**
— Integral geometry and multitemporal wave equations. **99j:58207**
— (*with* Schlichtkrull, H.) The Paley-Wiener space for the multitemporal wave equation. **99j:58208**
Keel, Markus Global existence for critical power Yang-Mills-Higgs equations in $\mathbf{R}^{3+1}$. (English summary) **99b:58227**
— (*with* Tao, Terence) Local and global well-posedness of wave maps on $\mathbf{R}^{1+1}$ for rough data. **99k:58180**
Kunze, Markus Instability of the periodic motion of a particle interacting with a scalar wave field. (English summary) **99k:58181**
Kusuoka, Shigeo (*with* Zhou, Xian Yin) Waves on fractal-like manifolds and effective energy propagation. (English summary) **99i:58148**
Laas, Tõnu (*with* Mankin, Romi; Tammelo, Risto) Higher-order fundamental solutions of second-order wave equations on a curved spacetime. (English summary) **99e:58184**
— (*with* Mankin, Romi) Diversors and higher-order fundamental solutions of covariant wave equations. (English summary) **99h:58192**
Mankin, Romi *see* **Laas, Tõnu; et al., 99e:58184** *and* **99h:58192**
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Simon, Jacques C. H. *see* **Flato, Moshé; et al., 99j:58205**
Smoller, J. A. (*with* Wasserman, A. G.) Extendability of solutions of the Einstein-Yang/Mills equations. (English summary) **99h:58193**
Sternheimer, Daniel *see* **Flato, Moshé; et al., 99j:58205**
Taflin, Erik *see* **Flato, Moshé; et al., 99j:58205**
Tammelo, Risto *see* **Laas, Tõnu; et al., 99e:58184**
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Tataru, Daniel Local and global results for wave maps. I. (English summary) **99j:58209**
Wasserman, A. G. *see* **Smoller, J. A., 99h:58193**
Zhou, Xian Yin *see* **Kusuoka, Shigeo, 99i:58148**

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Bachelot, Alain Diffusion classique et quantique par un trou noir en formation. [Classical and quantum scattering by a black hole under formation] **99c:83045**
— Scattering operator for the Klein-Gordon equation on the Schwarzschild metric. (English summary) **99e:83034**
— L'effet Hawking. (English and French summaries) [The Hawking effect] **99c:83046**
Bernardi, Enrico (*with* Bove, Antonio) Geometric transition for a class of hyperbolic operators with double characteristics. **99c:35007**
Bove, Antonio *see* **Bernardi, Enrico, 99c:35007**
Clarke, C. J. S. Generalized hyperbolicity in singular spacetimes. (English summary) **99c:83067**
Euler, Marianna (*with* Euler, Norbert) Symmetries for a class of explicitly space- and time-dependent $(1+1)$-dimensional wave equations. (English summary) **99c:35010**
Euler, Norbert *see* **Euler, Marianna, 99c:35010**
Fedoryuk, M. V. Equations with rapidly oscillating solutions [MR 91j:58158]. (*see* **99i:35002**)
Friedrich, Helmut Einstein's equation and conformal structure. (English summary) **99g:83011**
Klainerman, Sergiu (*with* Selberg, Sigmund) Remark on the optimal regularity for equations of wave maps type. **99c:35163**
Motet-Bachelot, Agnès Resonances of the Schwarzschild metric. (English summary) **99e:83039**
Schaudt, Urs M. On the Dirichlet problem for the stationary and axisymmetric Einstein equations. (English summary) **99b:83010**
Selberg, Sigmund *see* **Klainerman, Sergiu, 99c:35163**
Smith, Hart F. Wave equations with low regularity coefficients. (English summary) **99e:35126**
Stuart, David M. Solitons on pseudo-Riemannian manifolds. I. The sine-Gordon equation. (English summary) **99j:35193**
Zhou, Yi[1] Remarks on local regularity for two space-dimensional wave maps. (English summary) **99c:35170**

58G17 Propagation of singularities; initial value problems

Evsyukov, A. N. On the asymptotics of solutions of differential equations on complex manifolds. (Russian. Russian summary) **99j:58210**
Joshi, Mark S. (*with* Sá Barreto, Antônio) The generation of semilinear singularities by a swallowtail caustic. (English summary) **99c:58155**
Okada, Yasunori (*with* Tose, Nobuyuki) A dependence domain for a class of micro-differential equations with involutive double characteristics. **99d:58170**
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Tose, Nobuyuki *see* **Okada, Yasunori, 99d:58170**

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Hamada, Yûsaku Sur un prolongement analytique de la solution du problème de Cauchy dont les données de Cauchy ont des singularités polaires. [On an analytic continuation of the solution of the Cauchy problem whose Cauchy data have polar singularities] **99m:35010**
Melrose, Richard B. (*with* Sá Barreto, Antônio; Zworski, Maciej) Semi-linear diffraction of conormal waves. (English and French summaries) **99f:35136**
Nagaraj, B. R. Propagation of singularities for a class of Fuchsian operators. (English summary) **99c:35005**
Ōkaji, Takashi Symmetric structure and the propagation of singularities of solutions to partial differential equations. (Japanese) (*see* **99m:35003**)
Sá Barreto, Antônio *see* **Melrose, Richard B.; et al., 99f:35136**
Tataru, Daniel Local and global results for wave maps. I. (English summary) **99j:58209**
Zworski, Maciej *see* **Melrose, Richard B.; et al., 99f:35136**

58G18 Perturbations; asymptotics

Adams, David H. The semiclassical approximation for the Chern-Simons partition function. (English summary) **99a:58151**
Alvarez, Marcos (*with* Labastida, J. M. F.; Pérez, Esther) Vassiliev invariants for links from Chern-Simons perturbation theory. (English summary) **99a:58152**
Bokan, Neda (*with* Gilkey, Peter B.; Simon, Udo) Asymptotic spectra for Weyl geometries. **99f:58206**
Desjardins, S. Asymptotic expansions for the heat content. (English summary) **99c:58156**
Estrada, Ricardo (*with* Gracia-Bondia, J. M.; Várilly, J. C.) On summability of distributions and spectral geometry. (English summary) **99a:58153**
Gilkey, Peter B. *see* **Bokan, Neda; et al., 99f:58206**
Golovchanskiĭ, V. V. Asymptotics of the spectral function of the Laplace-Beltrami operator for the co-compact discrete subgroups $SL_2(\mathbf{R})$. (Russian. Russian summary) **99m:58188**
Gracia-Bondía, J. M. *see* **Estrada, Ricardo; et al., 99a:58153**
Howls, C. J. Hyperasymptotics for multidimensional integrals, exact remainder terms and the global connection problem. (English summary) **99a:58154**
Huntley, Jonathan (*with* Jorgenson, Jay; Lundelius, Rolf) On the asymptotic behavior of counting functions associated to degenerating hyperbolic Riemann surfaces. (English summary) **99e:58186**
Iwasaki, Chisato A new construction of an asymptotics for the fundamental solution for parabolic initial-boundary problem and its application to the $\overline{\partial}$-Neumann problem. **99c:58157**
Jorgenson, Jay (*with* Lundelius, Rolf) Convergence of the normalized spectral counting function on degenerating hyperbolic Riemann surfaces of finite volume. (English summary) **99e:58185**
— *see also* **Huntley, Jonathan; et al., 99e:58186**
Kamimoto, Joe On an integral of Hardy and Littlewood. **99c:58158**
Karol', A. I. Asymptotics of the parabolic Green function for an elliptic operator on a manifold with conical points. (Russian. Russian summary) **99e:58187**
Kolokol'tsov, V. N. (*with* Makarov, Konstantin A.) Asymptotic spectral analysis of a small diffusion operator and the life times of the corresponding diffusion process. (English summary) **99b:58228**
Labastida, J. M. F. *see* **Alvarez, Marcos; et al., 99a:58152**
Lundelius, Rolf *see* **Jorgenson, Jay, 99e:58185** *and* **Huntley, Jonathan; et al., 99e:58186**
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Miyanisi, Yosihisa Asymptotic behavior of eigenfunctions and classical ergodicity (necessary and sufficient conditions on semiclassical eigenfunctions for general Hamiltonian systems to be ergodic). (Japanese) (*see* **99a:00049**)
Paul, Thierry (*with* Uribe, Alejandro) Weighted Weyl estimates near an elliptic trajectory. (English summary) **99g:58122**

Pérez, Esther *see* **Alvarez, Marcos; et al., 99a:58152**
Richardson, Ken The asymptotics of heat kernels on Riemannian foliations. (English summary) **99e:58188**
Rokhlin, D. B. On the spectral problem for Laplace tidal equations on a surface with an edge. (Russian. English and Russian summaries) **99f:58207**
Schulze, Bert-Wolfgang (*with* Sternin, Boris Yu.; Shatalov, V. E.) On some global aspects of the theory of partial differential equations on manifolds with singularities. (English summary) **99e:58189**
Shatalov, V. E. *see* **Schulze, Bert-Wolfgang; et al., 99e:58189**
Simon, Udo *see* **Bokan, Neda; et al., 99f:58206**
Sternin, Boris Yu. *see* **Schulze, Bert-Wolfgang; et al., 99e:58189**
To, Wing-Keung (*with* Weng, Lin) The asymptotic behavior of Green's functions for quasi-hyperbolic metrics on degenerating Riemann surfaces. (English summary) **99e:58190**
Uribe, Alejandro *see* **Paul, Thierry, 99g:58122**
Várilly, J. C. *see* **Estrada, Ricardo; et al., 99a:58153**
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Altschüler, Daniel (*with* Freidel, Laurent) Vassiliev knot invariants and Chern-Simons perturbation theory to all orders. (English summary) **99c:57008**
Balslev, Erik Spectral deformation of Laplacians on hyperbolic manifolds. **99j:58213**
Bokan, Neda (*with* Gilkey, Peter B.; Simon, Udo) Spectral invariants of affine hypersurfaces. (English summary) **99j:58197**
Christiansen, T. Spectral asymptotics for compactly supported perturbations of the Laplacian on $\mathbb{R}^n$. **99j:35157**
Dimassi, Mouez Trace asymptotics formulas and some applications. (English summary) **99j:35158**
Freidel, Laurent *see* **Altschüler, Daniel, 99c:57008**
Gilkey, Peter B. (*with* Grubb, Gerd) Logarithmic terms in asymptotic expansions of heat operator traces. (English summary) **99m:58184**
— *see also* **Bokan, Neda; et al., 99j:58197**
Grubb, Gerd *see* **Gilkey, Peter B., 99m:58184**
(Guillemin, V.) *see* **Laptev, A.; et al., 99g:58126**
Ivrīĭ, V. Ya. ★ Microlocal analysis and precise spectral asymptotics. (English summary) **99e:58193**
Jorgenson, Jay (*with* Lundelius, Rolf) A regularized heat trace for hyperbolic Riemann surfaces of finite volume. (English summary) **99b:58224**
Karasev, Mikhail (*with* Vorob′ev, Yu. M.) Integral representations over isotropic submanifolds and equations of zero curvature. (English summary) **99d:58073**
Karpushkin, Vladimir Nikolaevich Uniform estimates for oscillatory integrals with a phase of the series $\widetilde{R}_m$. (Russian) **99k:42034**
Kohno, Toshitake Chern-Simons perturbative invariants. **99b:57066**
Laptev, A. (*with* Robert, Didier; Safarov, Yu.) Remarks on the paper of V. Guillemin and K. Okikiolu: "Subprincipal terms in Szegő estimates" [Math. Res. Lett. **4** (1997), no. 1, 173–179; MR 97k:58169]. **99g:58126**
Lott, John Remark about heat diffusion on periodic spaces. (English summary) **99f:58192**
Lundelius, Rolf *see* **Jorgenson, Jay, 99b:58224**
Maslov, V. P. (*with* Shvedov, O. Yu.) On complex germ in relativistic field theory. (Russian) **99d:58182**
Norris, James R. Heat kernel asymptotics and the distance function in Lipschitz Riemannian manifolds. **99d:58167**
(Okikiolu, K.) *see* **Laptev, A.; et al., 99g:58126**
Qu, Chang Zheng Asymptotics of heat kernels and Green kernels on the Heisenberg group. (Chinese. English and Chinese summaries) **99m:58185**
Robert, Didier *see* **Laptev, A.; et al., 99g:58126**
Rozansky, Lev The trivial connection contribution to Witten's invariant and finite type invariants of rational homology spheres. (English summary) **99c:57063**
Safarov, Yu. *see* **Laptev, A.; et al., 99g:58126**
Shafarevich, Andrei I. On the asymptotic theory of partial differential equations with rapidly varying coefficients. Its relation with spectral theory and geometric phases. (Spanish) (*see* **99f:00013**)
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Simon, Udo *see* **Bokan, Neda; et al., 99j:58197**
VanderKam, Jeffrey M. L^∞ norms and quantum ergodicity on the sphere. **99d:58175**
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Vorob′ev, Yu. M. *see* **Karasev, Mikhail, 99d:58073**
Wai, Hon-Kit Witten-Helffer-Sjöstrand theory for S^1-equivariant cohomology. (English summary) **99i:58138**
Wu, Fa En Asymptotic expansions of heat kernels of spheres. (Chinese. English and Chinese summaries) **99a:58147**
Zelditch, Steven Asymptotics of holomorphic sections of powers of a positive line bundle. **99k:32050**

58G20 Boundary value problems on manifolds

Choi, Hyeong In (*with* Kim, Seok Woo; Lee, Yong Hah) Rough isometry and the asymptotic Dirichlet problem. (English summary) **99j:58211**
Farinelli, S. (*with* Schwarz, Günter) On the spectrum of the Dirac operator under boundary conditions. (English summary) **99m:58189**
Fontana, Luigi (*with* Krantz, Steven G.; Peloso, Marco M.) Hodge theory in the Sobolev topology for the de Rham complex. (English summary) **99a:58155**
Kato, Shin Uniqueness of solutions of an elliptic singular boundary value problem. **99j:58212**
Kim, Seok Woo *see* **Choi, Hyeong In; et al., 99j:58211**
Kitahara, Haruo (*with* Pak, Hong Kyung) Notes on vanishing theorems on Riemannian manifolds with boundary. (English summary) **99m:58190**
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Peloso, Marco M. *see* **Fontana, Luigi; et al., 99a:58155**
Schrohe, Elmar (*with* Schulze, Bert-Wolfgang) Mellin operators in a pseudodifferential calculus for boundary value problems on manifolds with edges. (English summary) **99f:58208**
Schulze, Bert-Wolfgang *see* **Schrohe, Elmar, 99f:58208**
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Booss, Bernhelm (*with* Furutani, Kenro) The Maslov index: a functional analytical definition and the spectral flow formula. (English summary) **99e:58172**
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Brüning, Jochen (*with* Lesch, Matthias) On the η-invariant of certain nonlocal boundary value problems. **99m:58180**
Elizalde, Emilio (*with* Vasilevich, D. V.) Heat kernel coefficients for Chern-Simons boundary conditions in QED. (English summary) **99m:58183**
Falomir, Horacio Global boundary conditions for the Dirac operator. (English summary) **99h:58199**
Furutani, Kenro *see* **Booss, Bernhelm, 99e:58172**
Hu, Xinmin Bubblings of a family of singular pseudo-holomorphic disks. (English summary) **99k:58031**
Leichtnam, Eric (*with* Piazza, Paolo) Higher eta invariants and the Novikov conjecture on manifolds with boundary. (English and French summaries) **99j:58199**
Lesch, Matthias *see* **Brüning, Jochen, 99m:58180**
Melrose, Richard B. (*with* Nistor, Victor) K-theory of C^*-algebras of b-pseudodifferential operators. (English summary) **99i:58145**
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Nistor, Victor *see* **Melrose, Richard B., 99i:58145**
Piazza, Paolo *see* **Leichtnam, Eric, 99j:58199**
Plamenevskiĭ, B. A. Elliptic boundary value problems in domains with piecewise smooth boundary. **99h:35041**
Schaudt, Urs M. On the Dirichlet problem for the stationary and axisymmetric Einstein equations. (English summary) **99b:83010**
Scott, S. G. *see* **Wojciechowski, K. P.; et al., 99j:58222**
Stefanov, Plamen (*with* Uhlmann, Gunther) Stability estimates for the hyperbolic Dirichlet to Neumann map in anisotropic media. (English summary) **99f:35120**
Uhlmann, Gunther *see* **Stefanov, Plamen, 99f:35120**
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Wojciechowski, K. P. (*with* Scott, S. G.; Morchio, Gianni; Booss, Bernhelm) Determinants, manifolds with boundary and Dirac operators. (English summary) **99j:58222**

58G25 Spectral problems; spectral geometry; scattering theory [see also 35Pxx]

Alexandrov, B. (*with* Grantcharov, G.; Ivanov, Stefan P.) An estimate for the first eigenvalue of the Dirac operator on compact Riemannian spin manifold admitting parallel one-form. (English summary) **99k:58182**
Ammann, Bernd The Dirac operator on collapsing S^1-bundles. (English summary) **99m:58191**
— (*with* Bär, Christian) The Dirac operator on nilmanifolds and collapsing circle bundles. (English summary) **99h:58194**
Balslev, Erik Spectral deformation of Laplacians on hyperbolic manifolds. **99j:58213**
Bär, Christian Harmonic spinors for twisted Dirac operators. **99a:58156**
— Extrinsic bounds for eigenvalues of the Dirac operator. (English summary) **99k:58183**
— *see also* **Ammann, Bernd, 99h:58194**
Beckers, Jules (*with* Debergh, Nathalie) On radial Schrödinger equations in curved spaces and their spectra through nonlinear constraints. (English summary) **99a:58157**
Bobrov, A. N. Higher-order regularized traces of the Laplace operator with a potential on symmetric spaces of rank 1. (Russian. Russian summary) **99h:58195**
— (*with* Podol′skiĭ, V. E.) On the convergence of the trace for a power of the Laplace-Beltrami operator with a potential on the sphere S^n. (Russian) **99g:58123**
Borbély, Albert Sharp gradient estimates for eigenfunctions on Riemannian manifolds. (English summary) **99d:58171**
Bordoni, M. Spectral comparison between Dirac and Schrödinger operators. (English and Italian summaries) **99g:58124**
Brooks, Robert Wolfe Isospectral graphs and isospectral surfaces. **99f:58209**
— (*with* Gornet, Ruth; Gustafson, William H.) Mutually isospectral Riemann surfaces. **99k:58184**
— Platonic surfaces. (English summary) **99k:58185**
Bureš, Jarolím Spin structures and harmonic spinors on nonhyperelliptic Riemann surfaces of small genera. (English summary) **99d:58172**
Chao, Xiao Li The spectral characterization of hypersurfaces with constant mean curvature in a unit sphere. (English summary) **99c:58159**
Chen, Chiun-Chuan (*with* Hwang, Jenn-Fang) $\sum_{j=1}^{\infty} e^{t\sqrt{j}x}$ is a C^∞ function on $\mathbb{R} \setminus \{0\}$. (English summary) **99b:58229**
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Chen, Mu Fa Coupling, spectral gaps and related topics. III. (Chinese)
Cho, Kwan-Ho *see* **Kwon, Jung-Hwan; et al., 99j:58150**
Colin de Verdière, Yves Une introduction à la mécanique semi-classique. (French summary) [An introduction to semiclassical mechanics] **99m:58192**
Comar, Timothy D. (*with* Taylor, Edward C.[2]) Geometrically convergent Kleinian groups and the lowest eigenvalue of the Laplacian. (English summary) **99f:58210**
Cornish, Neil J. (*with* Turok, Neil G.) Ringing the eigenmodes from compact manifolds. (English summary) **99k:58186**
Croke, Christopher B. (*with* Sharafutdinov, Vladimir A.) Spectral rigidity of a compact negatively curved manifold. **99e:58191**
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Donnelly, Harold Exhaustion functions and the spectrum of Riemannian manifolds. (English summary) **99b:58230**

El Soufi, Ahmad (*with* Ilias, Saïd; Ros, Antonio) Sur la première valeur propre des tores. [On the first eigenvalue of the torus] **99e:58192**
Engman, Martin Trace formulae for S^1 invariant Green's operators on S^2. (English summary) **99c:58160**
— Sharp bounds for eigenvalues and multiplicities on surfaces of revolution. (English summary) **99m:58193**
Exner, Pavel (*with* Vugal'ter, S. A.) Bound-state asymptotic estimates for window-coupled Dirichlet strips and layers. (English summary) **99f:58211**
Friedland, Lew Spectral geometry and almost Hermitian manifolds. (English summary) **99f:58212**
Gentile, Giovanni A class of 3-dimensional manifolds with bounded first eigenvalue on 1-forms. (English summary) **99m:58194**
Gilkey, Peter B. (*with* Park, Jeong Hyeong) A note on the eigenfunctions of the Laplacian for a twisted holomorphic product. (English summary) **99k:58187**
— (*with* Leahy, John V.; Park, Jeong Hyeong) The spectral geometry of Riemannian submersions. (English summary) **99j:58214**
— (*with* Leahy, John V.; Park, Jeong Hyeong) ★ Spinors, spectral geometry, and Riemannian submersions. (English summary) **99a:58158**
— (*with* Leahy, John V.; Park, Jeong Hyeong) Eigenforms of the spin Laplacian and projectable spinors for principal bundles. (English summary) **99b:58231**
Ginzburg, David (*with* Rudnick, Zeév) Stable multiplicities in the length spectrum of Riemann surfaces. (English summary) **99g:58125**
Gordon, Carolyn S. (*with* Wilson, Edward N.) Continuous families of isospectral Riemannian metrics which are not locally isometric. **99a:58159**
Gornet, Ruth *see* **Brooks, Robert Wolfe; et al., 99k:58184**
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Jakobson, Dmitry Quantum limits on flat tori. (English summary) **99e:58194**
Joshi, Mark S. (*with* Sá Barreto, Antônio) Recovering asymptotics of short range potentials. (English summary) **99e:58195**
Kang, Tae Ho (*with* Kim, Hyun Suk) On the spectral geometry for the Jacobi operators of harmonic maps into a Sasakian or cosymplectic space form. (English summary) **99i:58149**
— (*with* Ki, U-Hang; Pak, Jin Suk) On the spectral geometry for the Jacobi operators of harmonic maps into product manifolds. (English summary) **99b:58232**
Ki, U-Hang *see* **Kang, Tae Ho; et al., 99b:58232**
Kim, Hyun Suk *see* **Kang, Tae Ho, 99i:58149**
Kramer, Wolfram (*with* Semmelmann, U.; Weingart, G.) The first eigenvalue of the Dirac operator on quaternionic Kähler manifolds. (English summary) **99m:58195**
Kröger, Pawel On explicit bounds for the spectral gap on compact manifolds. (English summary) **99c:58161**
Kwon, Jung-Hwan (*with* Cho, Kwan-Ho; Sohn, Won-Ho) Cosymplectic conformal curvature tensor and spectrum of the Laplacian in cosymplectic manifolds. (English summary) **99i:58150**
Laptev, A. (*with* Robert, Didier; Safarov, Yu.) Remarks on the paper of V. Guillemin and K. Okikiolu: "Subprincipal terms in Szegő estimates" [Math. Res. Lett. 4 (1997), no. 1, 173–179; MR 97k:58169]. **99g:58126**
Leahy, John V. *see* **Gilkey, Peter B.; et al., 99a:58158; 99b:58231** *and* **99j:58214**
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Mandouvalos, N. (*with* Marias, M.) Spectral theory for a class of manifolds of hyperbolic type. (English summary) **99f:58215**
— (*with* Marias, M.) Eigenfunctions of the Laplacian and boundary behaviour on manifolds of hyperbolic type. (English summary) **99f:58214**
— The spectrum of irregular domains. **99c:58162**
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Mashimo, Katsuya Spectra of the Laplacian on the Cayley projective plane. **99d:58173**
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Micheletti, Anna Maria (*with* Pistoia, Angela) Multiple eigenvalues of the Laplace-Beltrami operator and deformation of the Riemannian metric. (English summary) **99f:58216**
Miklyukov, Vladimir M. (*with* Vuorinen, Matti K.) Hardy's inequality for $W_0^{1,p}$-functions on Riemannian manifolds. (English summary) **99m:58196**
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58G37 Correspondences and other transformation methods (e.g. Lie-Bäcklund) [see also 35A22]

Liu, Qing Ping[1] (*with* Mañas, Manuel) Vectorial Ribaucour transformations for the Lamé equations. (English summary) **99c:58178**
Mañas, Manuel *see* **Liu, Qing Ping[1]**, **99c:58178**
Marvan, M. Some local properties of Bäcklund transformations. (English summary) **99j:58230**

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Berest, Yu. Yu. Huygens' principle and the bispectral problem. (English summary) **99c:58154**
Broadbridge, Philip *see* **Goard, Joanna M.**, **99j:35009**
Cherniga, R. M. New non-Lie ansätze and exact solutions of nonlinear reaction-diffusion-convection equations. (English summary)
Driver, Bruce K. Integration by parts and quasi-invariance for heat kernel measures on loop groups. (English summary) **99a:60054a**
— A correction to the paper: "Integration by parts and quasi-invariance for heat kernel measures on loop groups". (English summary) **99a:60054b**
Gardner, Robert Brown (*with* Kamran, Niky) Exterior differential systems and normal forms of parabolic systems. (English summary) **99b:58013**
Goard, Joanna M. (*with* Broadbridge, Philip) Nonlinear superposition principles obtained by Lie symmetry methods. **99j:35009**
Kamran, Niky *see* **Gardner, Robert Brown**, **99b:58013**
Pan, Zu-Liang (*with* Yang, Qingjian; Zheng, Ke-Jie) Lie algebra and Hamiltonian structures for nonlinear diffusion equation and Thompson equation. (English summary) **99e:35101**
Sabatier, Pierre C. On multidimensional Darboux transformations. (English summary) **99c:35012**
Steeb, Willi-Hans ★ Continuous symmetries, Lie algebras, differential equations and computer algebra. (English summary) **99h:58205**
Yang, Qingjian *see* **Pan, Zu-Liang; et al.**, **99e:35101**
Zheng, Ke-Jie *see* **Pan, Zu-Liang; et al.**, **99e:35101**

58G40 Applications

Bauer, Michel (*with* Thuillier, Frank) Representatives of the Thom class of a vector bundle. (English summary) **99m:58208**
Thuillier, Frank *see* **Bauer, Michel**, **99m:58208**

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Allibert, Brice Contrôle analytique de l'équation des ondes et de l'équation de Schrödinger sur des surfaces de revolution. (English and French summaries) [Analytic control of the wave equation and the Schrödinger equation on surfaces of revolution] **99h:93009**
Banerjee, R. S. On the constrained structure of duality symmetric Maxwell theory. (English summary) **99k:78006**
Bardos, Claude (*with* Masrour, Tawfik; Tatout, Frederic) Observation and control of elastic waves. (English summary) **99c:93056**
Beckers, Jules (*with* Debergh, Nathalie) On radial Schrödinger equations in curved spaces and their spectra through nonlinear constraints. (English summary) **99a:58157**
Ben Amar, Martine (*with* Patrício da Silva, Pedro) Can one hear the shape of a smectic drum? (English summary) **99f:76013**
Boyd, John Philip ★ Weakly nonlocal solitary waves and beyond-all-orders asymptotics. (English summary) **99h:35180**
Brindejonc, Vincent Einstein-Yang-Mills black hole solutions in three dimensions. (English summary) **99k:83057**
Chamseddine, Ali H. (*with* Connes, Alain) The spectral action principle. (English summary) **99c:58010**
Connes, Alain *see* **Chamseddine, Ali H.**, **99c:58010**
Debergh, Nathalie *see* **Beckers, Jules**, **99a:58157**
Fendley, Paul Excited-state energies and supersymmetric indices. (English summary) **99d:81155**

Figueroa, Héctor (*with* Gracia-Bondía, J. M.; Lizzi, Fedele; Várilly, J. C.) A nonperturbative form of the spectral action principle in noncommutative geometry. (English summary) **99e:58179**
Gambini, Rodolfo (*with* Pullin, Jorge) Variational derivation of exact skein relations from Chern-Simons theories. (English summary) **99a:57029**
Gracia-Bondía, J. M. *see* **Figueroa, Héctor; et al., 99e:58179**
Grosse, Harald (*with* Prešnajder, P.) A noncommutative regularization of the Schwinger model. (English summary) **99m:81149**
Hall, Brian C. Quantum mechanics in phase space. (English summary) **99e:22015**
Hetzer, Georg A quasilinear functional reaction-diffusion equation from climate modeling. **99d:35083**
Landi, Giovanni (*with* Rovelli, Carlo) Gravity from Dirac eigenvalues. (English summary) **99m:83074**
Leśniewski, Andrzej Noncommutative geometry. **99a:46128**
Li, Kai-tai (*with* Zhang, Wu) The Navier-Stokes equation on the stream surface and the inertial form. (English and Chinese summaries) **99a:76037**
Lizzi, Fedele *see* **Figueroa, Héctor; et al., 99e:58179**
Mason, Lionel J. (*with* Nicolas, Jean-Philippe) Résultats globaux pour les équations de Rarita-Schwinger en espace-temps d'Einstein asymptotiquement plats. (English and French summaries) [Global results for the Rarita-Schwinger equations on asymptotically flat vacuum space-times] **99i:83071**
Masrour, Tawfik *see* **Bardos, Claude; et al., 99c:93056**
Nazaikinskii, Vladimir E. (*with* Sternin, Boris Yu.) Wave packet transform in symplectic geometry and asymptotic quantization. (English summary) **99f:58088**
Nicolas, Jean-Philippe *see* **Mason, Lionel J., 99i:83071**
Patrício da Silva, Pedro *see* **Ben Amar, Martine, 99f:76013**
Prešnajder, P. *see* **Grosse, Harald, 99m:81149**
Pullin, Jorge *see* **Gambini, Rodolfo, 99a:57029**
Rovelli, Carlo *see* **Landi, Giovanni, 99m:83074**
Sethi, Savdeep (*with* Stern, Mark A.) A comment on the spectrum of H-monopoles. (English summary) **99a:81155**
— (*with* Stern, Mark A.) D-brane bound states redux. (English summary) **99h:81188**
Stern, Mark A. *see* **Sethi, Savdeep, 99a:81155** *and* **99h:81188**
Sternin, Boris Yu. *see* **Nazaikinskii, Vladimir E., 99f:58088**
Tatout, Frederic *see* **Bardos, Claude; et al., 99c:93056**
Tolksdorf, Jürgen The Einstein-Hilbert-Yang-Mills-Higgs action and the Dirac-Yukawa operator. (English summary) **99d:81179**
Várilly, J. C. *see* **Figueroa, Héctor; et al., 99e:58179**
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Chung, F. R. K. (*with* Yau, Shing-Tung) Eigenvalue inequalities for graphs and convex subgraphs. (English summary) **99c:58179**
Danielli, Donatella (*with* Garofalo, Nicola; Nhieu, Duy-Minh) Isoperimetric and trace inequalities with respect to Carnot-Carathéodory metrics. **99f:58223**
Garofalo, Nicola *see* **Danielli, Donatella; et al., 99f:58223**
Maslov, V. P. (*with* Shvedov, O. Yu.) On complex germ in relativistic field theory. (Russian) **99d:58182**
Mathonet, Pierre Intertwining operators between some spaces of differential operators on a manifold. (English summary) **99m:58209**
Nhieu, Duy-Minh *see* **Danielli, Donatella; et al., 99f:58223**
Popovych, Stanislav Representation of real forms of Witten's first deformation. (English summary) (*see* **99b:00027**)
Shvedov, O. Yu. *see* **Maslov, V. P., 99d:58182**
Yakupov, M. Sh. Canonical description and inversion of operators in a discrete space. I. (Russian) **99f:58224**
Yau, Shing-Tung *see* **Chung, F. R. K., 99c:58179**
Zhu, Meijun Some general forms of sharp Sobolev inequalities. (English summary) **99k:58197**

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Brandolini, Luca (*with* Rigoli, Marco; Setti, Alberto G.) Positive solutions of Yamabe-type equations on the Heisenberg group. **99d:35027**
Chen, Hua[1] *see* **Sleeman, B. D., 99e:58198**
Duval, C. (*with* Ovsienko, Valentin) Space of second-order linear differential operators as a module over the Lie algebra of vector fields. (English summary) **99b:17028**
Friedman, Joel Computing Betti numbers via combinatorial Laplacians. (English summary) **99c:52022**
Kuranishi, Masatake On a priori estimate on a manifold with singularity on the boundary. **99g:32031**
Ovsienko, Valentin *see* **Duval, C., 99b:17028**
Rigoli, Marco *see* **Brandolini, Luca; et al., 99d:35027**
Setti, Alberto G. *see* **Brandolini, Luca; et al., 99d:35027**
Sleeman, B. D. (*with* Chen, Hua[1]) On a pair of non-isometric isospectral domains with fractal boundaries and the Weyl-Berry conjecture. (English summary) **99e:58198**
Urakawa, Hajime Spectra of the discrete and continuous Laplacians on graphs and Riemannian manifolds. **99c:58165**

58Hxx Pseudogroups, differentiable groupoids and general structures on manifolds

58H05 Pseudogroups and differentiable groupoids [see also 22A22, 22E65]

Bangoura, Momo (*with* Kosmann-Schwarzbach, Yvette) Équation de Yang-Baxter dynamique classique et algébroïdes de Lie. (English and French summaries) [The classical dynamical Yang-Baxter equation and Lie algebroids] **99k:58198**
Bruhat, François Travaux de Sternberg. [Works of Sternberg] (*see* **99f:00038**)
Dazord, Pierre Contact groupoids and prequantization. **99i:58160**
Grabowski, Janusz (*with* Urbański, Paweł) Tangent and cotangent lifts and graded Lie algebras associated with Lie algebroids. (English summary) **99k:58199**
— (*with* Urbański, Paweł) Lie algebroids and Poisson-Nijenhuis structures. (English summary) **99c:58180**
Kamran, Niky (*with* Robart, Thierry) A compatible analytic manifold structure for Lie pseudogroups of infinite type. (English summary) **99g:58133**
Kosmann-Schwarzbach, Yvette *see* **Bangoura, Momo, 99k:58198**
Lisle, Ian G. (*with* Reid, Gregory J.) Geometry and structure of Lie pseudogroups from infinitesimal defining systems. (English summary) **99h:58206**
Mackenzie, Kirill C. H. (*with* Xu, Ping[1]) Classical lifting processes and multiplicative vector fields. **99m:58210**
Matsushima, Yozô Pseudo-groupes de Lie transitifs. [Transitive Lie pseudogroups] (*see* **99f:00035**)
Mokri, Tahar Matched pairs of Lie algebroids. (English summary) **99a:58165**
Reid, Gregory J. *see* **Lisle, Ian G., 99h:58206**
Robart, Thierry *see* **Kamran, Niky, 99g:58133**
Urbański, Paweł *see* **Grabowski, Janusz, 99c:58180** *and* **99k:58199**
Wirtz, Bruno Fixed points and entropy for nonsolvable dynamics on $\mathbf{C},0$. (English summary) **99f:58225**
Xu, Ping[1] *see* **Mackenzie, Kirill C. H., 99m:58210**

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Chrastina, Jan ★ The formal theory of differential equations. **99j:58011**
Dazord, Pierre Sur l'intégration des algèbres de Lie locales et la préquantification. (English summary) [Integration of local Lie algebras and prequantization] **99g:58057**
Dubrov, B. M. (*with* Komrakov, B. P.) Symmetries of completely integrable distributions. (Russian) **99m:58010**
Fels, Mark (*with* Olver, Peter J.) Moving coframes. I. A practical algorithm. (English summary) **99c:53012**
Komrakov, B. P. *see* **Dubrov, B. M., 99m:58010**
Liu, Zhang-Ju (*with* Weinstein, Alan; Xu, Ping[1]) Dirac structures and Poisson homogeneous spaces. (English summary) **99g:58053**
Meigniez, Gaël Feuilletages de Lie résolubles. (English and French summaries) [Solvable Lie foliations] **99e:57042**
Olver, Peter J. *see* **Fels, Mark, 99c:53012**
Sévennec, Bruno Une caractérisation des formes symplectiques. (English and French summaries) [A characterization of symplectic forms] **99h:53047**
Sheu, Albert J. L. Groupoids and quantization. (English summary) **99j:58086**
Weinstein, Alan Tangential deformation quantization and polarized symplectic groupoids. (English summary) **99a:58080**
— Poisson geometry. (English summary) **99i:58066**
— *see also* **Liu, Zhang-Ju; et al., 99g:58053**
Xu, Ping[1] Flux homomorphism on symplectic groupoids. **99a:58081**
— Quantum groupoids and deformation quantization. (English and French summaries) **99h:58073**
— *see also* **Liu, Zhang-Ju; et al., 99g:58053**
Zakrzewski, Stanisław Twisted Legendre transformation. (English summary) **99h:58070**

58H10 Cohomology of classifying spaces for pseudogroup structures (Spencer, Gel'fand-Fuks, etc.) [see also 57R32]

Bel'ko, I. V. Characteristic homomorphism of a Lie algebroid. (Russian. English and Russian summaries) **99c:58181**
Gaĭsin, T. I. The Spencer complex for manifolds over algebras. (Russian. English and Russian summaries) **99j:58231**
Giunashvili, Z. Several cohomology algebras connected with the Poisson structure. (English summary) **99k:58200**
Krasil'shchik, I. S. Poincaré δ-lemma for smooth algebras. (English summary) **99e:58209**
— Algebras with flat connections and symmetries of differential equations. (English summary) **99e:58210**
— Cohomology background in geometry of PDE. (English summary) **99k:58201**
Malgrange, Bernard Théorie analytique des équations différentielles. [Analytic theory of differential equations] (*see* **99f:00042**)
— L'involutivité générique des systèmes différentiels analytiques. (English and French summaries) [Generic involutiveness of analytic differential systems] **99m:58211**
Prástaro, Agostino Quantum and integral (co)bordisms in partial differential equations. (English summary) **99d:58183**
Temo Beko, De Loso Équation aux dérivées partielles de Hamilton-Jacobi pour le problème variationnel multidimensionnel. (English and French summaries) [Hamilton-Jacobi partial differential equations for the multidimensional variational problem] **99a:58166**
Tevdoradze, Z. A. Vertical cohomologies and their application to completely integrable Hamiltonian systems. (English summary) **99h:58207**
Veloso, José M. Prolongation projection commutativity theorem. (English summary) **99a:58167**
Verbovetskiĭ, A. M. Cohomology of a compatibility complex. (Russian) **99c:58182**
Vitolo, Raffaele Finite order variational bicomplexes. **99j:58232**

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Bocharov, A. V. On Spencer cohomologies of affine algebraic varieties. (English summary) **99e:14020**
Grigore, Dan Radu The variational sequence on finite jet bundle extensions and the Lagrangian formalism. (English summary) **99m:58069**
Mathieu, Olivier Homologies associated with Poisson structures. (English summary) **99b:58097**
Roger, Claude Various aspects and generalizations of the Godbillon-Vey invariant. (English summary) **99c:57060**
Vinogradov, A. M. Foreword. **99m:01030**

Vinogradov, M. M. Remarks on algebraic Lagrangian formalism. (English summary) **99e:16029**
Yatsui, Tomoaki On the generalized Spencer cohomology of pseudo-product graded Lie algebras of type CH_l. (English summary)

58H15 Deformations of structures [see also 32Gxx, 58G05]

Boyarshinova, A. V. On the space of essential infinitesimal deformations. (Russian) **99c:58183**
Ovsienko, Valentin (*with* Roger, Claude) Deforming the Lie algebra of vector fields on S^1 inside the Poisson algebra on $\hat{T}^*S^1$. (English summary) **99k:58202**
Roger, Claude *see* **Ovsienko, Valentin, 99k:58202**

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Bordemann, Martin (*with* Römer, Hartmann; Waldmann, Stefan) A remark on formal KMS states in deformation quantization. (English summary) **99f:58083**
Karasev, Mikhail Advances in quantization: quantum tensors, explicit star-products, and restriction to irreducible leaves. (English summary) **99e:58085**
Kobayashi, Toshiyuki Deformation of compact Clifford-Klein forms of indefinite-Riemannian homogeneous manifolds. **99b:53074**
Lecomte, Pierre B. A. (*with* Mathonet, Pierre; Tousset, Eric) Comparison of some modules of the Lie algebra of vector fields. (English summary) **99c:17038**
Maeda, Yoshiaki *see* **Ōmori, Hideki; et al., 99k:58078**
Malgrange, Bernard L'involutivité générique des systèmes différentiels analytiques. (English and French summaries) [Generic involutiveness of analytic differential systems] **99m:58211**
Mathonet, Pierre *see* **Lecomte, Pierre B. A.; et al., 99c:17038**
Merkulov, Sergei Formality of canonical symplectic complexes and Frobenius manifolds. **99j:58078**
Miyazaki, Naoya *see* **Ōmori, Hideki; et al., 99k:58078**
Ōmori, Hideki (*with* Maeda, Yoshiaki; Miyazaki, Naoya; Yoshioka, Akira) Deformation quantizations of the Poisson algebra of Laurent polynomials. (English summary) **99k:58078**
Römer, Hartmann *see* **Bordemann, Martin; et al., 99f:58083**
Tousset, Eric *see* **Lecomte, Pierre B. A.; et al., 99c:17038**
Tunitskiĭ, D. V. On the contact equivalence of Monge-Ampère equations. (Russian. English and Russian summaries) **99m:58011**
Umemura, Hiroshi Lie-Drach-Vessiot theory—infinite-dimensional differential Galois theory. **99c:12010**
Waldmann, Stefan *see* **Bordemann, Martin; et al., 99f:58083**
Yoshioka, Akira *see* **Ōmori, Hideki; et al., 99k:58078**

58H99 None of the above, but in this section

Brandt, Friedemann Gauge covariant algebras and local BRST cohomology. (English summary) **99k:58203**

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Biswas, Indranil Differential operators on complex manifolds with a flat projective structure. (English summary) **99m:14034**
Etingof, Pavel (*with* Kazhdan, David A.) Quantization of Poisson algebraic groups and Poisson homogeneous spaces. **99m:58105**
Fliess, Michel (*with* Lévine, Jean; Martin, Philippe Pierre; Rouchon, Pierre) Nonlinear control and diffieties, with an application to physics. (English summary) **99i:93026**
Kazhdan, David A. *see* **Etingof, Pavel, 99m:58105**
Kotov, A. Yu. On the Poisson (co)homology of CP^1. (Russian) **99k:58071**
Lévine, Jean *see* **Fliess, Michel; et al., 99i:93026**
Martin, Philippe Pierre *see* **Fliess, Michel; et al., 99i:93026**
Milson, Robert (*with* Richter, David A.) Quantization of cohomology in semi-simple Lie algebras. (English summary) **99j:17031**
Richter, David A. *see* **Milson, Robert, 99j:17031**
Rouchon, Pierre *see* **Fliess, Michel; et al., 99i:93026**
Tsuboi, Takashi Irrational foliations of $S^3 \times S^3$. (English summary) **99k:57060**
Zakrzewski, Stanisław A characterization of coboundary Poisson Lie groups and Hopf algebras. (English summary) **99b:16065**

58Z05 Applications to physics

Items with secondary classifications in 58Z05

Abreu, Everton M. C. (*with* Braga, Nelson R. F.; Godinho, Cresus F. L.) Canonical transformations and gauge fixing in the triplectic quantization. (English summary) **99g:81217**
Basu, Banasri Symplectic structure and the fractional quantum Hall effect. (English summary) **99b:81285**
Bering, K. (*with* Damgaard, Poul Henrik) Higher antibrackets. (English summary) **99i:81254**
— Geometry of the Batalin-Fradkin-Vilkovisky theorem. (English summary) **99c:81253**
Bimonte, G. (*with* Musto, R.; Stern, Allen Bruce; Vitale, Patrizia) Deformed Chern-Simons theories. (English summary) **99d:81082**
Braga, Nelson R. F. *see* **Abreu, Everton M. C.; et al., 99g:81217**
Chakraborty, Biswajit (*with* Majumdar, A. S.) Hamiltonian analysis of the gauged CP^1 model, the Hopf term, and fractional spin. (English summary) **99m:81138**
da Costa, Newton C. A. *see* **Sant'Anna, Adonai S.; et al., 99b:58223**
Damgaard, Poul Henrik *see* **Bering, K., 99i:81254**
Dijkgraaf, Robbert Fields, strings and duality. **99m:81003**
Doria, Francisco Antonio *see* **Sant'Anna, Adonai S.; et al., 99b:58223**
Fendley, Paul Excited-state energies and supersymmetric indices. (English summary) **99d:81155**
Ferrari, Franco (*with* Lazzizzera, Ignazio) A Chern-Simons field theory description of topologically linked polymers. (English summary) **99h:82079**
Gava, E. (*with* Morales, Jose F.; Narain, K. S.; Thompson, George) Bound states of type I D-strings. (English summary) **99k:81238**
Godinho, Cresus F. L. *see* **Abreu, Everton M. C.; et al., 99g:81217**
Henneaux, Marc (*with* Knaepen, Bernard; Schomblond, Christiane) Characteristic cohomology of p-form gauge theories. (English summary) **99c:81255**
Hirayama, Minoru (*with* Kanno, Mika; Ueno, Masataka; Yamakoshi, Hitoshi) Non-abelian Stokes theorem for loop variables associated with nontrivial loops. (English summary) **99k:81183**
(Iyer, Balasubramanian Ramakrishna) *see* **Geometry, fields and cosmology, 99a:83002**
Kanno, Mika *see* **Hirayama, Minoru; et al., 99k:81183**
Kijowski, Jerzy (*with* Rudolph, Gerd; Rudolph, Michael) On the algebra of gauge invariants for one-flavour chromodynamics. (English summary) **99b:81267**
Klimčík, C. (*with* Ševera, Pavol) T-duality and the moment map. (English summary) **99h:81169**
Knaepen, Bernard *see* **Henneaux, Marc; et al., 99c:81255**
Lazzizzera, Ignazio *see* **Ferrari, Franco, 99h:82079**
Lusanna, Luca Dirac's observables for classical Yang-Mills theory. (English summary) **99f:81209**
Majumdar, A. S. *see* **Chakraborty, Biswajit, 99m:81138**
Morales, Jose F. *see* **Gava, E.; et al., 99k:81238**
Musto, R. *see* **Bimonte, G.; et al., 99d:81082**
Narain, K. S. *see* **Gava, E.; et al., 99k:81238**
Newman, Ezra T. (*with* Rovelli, Carlo) Hamilton-Jacobi theory for constrained systems and gauge invariant degrees of freedom in general relativity and Yang-Mills theory. (English summary) **99a:58073**
Oh, Phillial Integrable extension of nonlinear sigma model. (English summary) **99b:58075**
Pletyukhov, M. V. (*with* Tolkachev, E. A.) Evolution of twofold degenerate two-level system. Geometrical effects. (English summary) **99i:81058**
Rovelli, Carlo *see* **Newman, Ezra T., 99a:58073**
Rudolph, Gerd *see* **Kijowski, Jerzy; et al., 99b:81267**
Rudolph, Michael *see* **Kijowski, Jerzy; et al., 99b:81267**
Sant'Anna, Adonai S. (*with* da Costa, Newton C. A.; Doria, Francisco Antonio) The Atiyah-Singer index theorem and the gauge field copy problem. (English summary) **99b:58223**
Schomblond, Christiane *see* **Henneaux, Marc; et al., 99c:81255**
Ševera, Pavol *see* **Klimčík, C., 99h:81169**
Stern, Allen Bruce *see* **Bimonte, G.; et al., 99d:81082**
Thiemann, T. The inverse loop transform. (English summary) **99b:58041**
Thompson, George *see* **Gava, E.; et al., 99k:81238**
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Ueno, Masataka *see* **Hirayama, Minoru; et al., 99k:81183**
(Vishveshwara, C. V.) *see* **Geometry, fields and cosmology, 99a:83002**
Vitale, Patrizia *see* **Bimonte, G.; et al., 99d:81082**
de Wild Propitius, Mark (Spontaneously broken) abelian Chern-Simons theories. (English summary) **99b:81098**
Wren, K. K. Constrained quantisation and θ-angles. II. (English summary) **99g:58019**
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Pune ★ Geometry, fields and cosmology. **99a:83002**
School:
Gravitation and Cosmology ★ Geometry, fields and cosmology. **99a:83002**

60–XX Probability theory and stochastic processes {For additional applications, see 11Kxx, 62–XX, 90–XX, 92–XX, 93–XX, 94–XX. For numerical results, see 65U05.}

60–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Wilson, David Bruce Annotated bibliography of perfectly random sampling with Markov chains. (*see* **99b:60003**)

60–01 Instructional exposition (textbooks, tutorial papers, etc.)

Borovskikh, Yu. V. (*with* Korolyuk, Vladimir S.) ★ Martingale approximation. **99f:60001**
Bosq, Denis (*with* Nguyen, Hung T.) ★ A course in stochastic processes. (English summary) **99i:60001**
Cocozza-Thivent, Christiane ★ Processus stochastiques et fiabilité des systèmes. (French. French summary) [Stochastic processes and system reliability] **99h:60001**
Ghorbanzadeh, D. ★ Probabilités. (French. French summary) [Probability theory] **99m:60001**
Kallenberg, Olav ★ Foundations of modern probability. (English summary) **99e:60001**
Karlin, Samuel *see* **Taylor, Howard M., 99c:60001**
Korolyuk, Vladimir S. *see* **Borovskikh, Yu. V., 99f:60001**
Nguyen, Hung T. *see* **Bosq, Denis, 99i:60001**
Rotar, Vladimir ★ Probability theory. **99j:60001**
(Saporta, Gilbert) *see* **Ghorbanzadeh, D., 99m:60001**
Skorokhod, A. V. ★ Lectures on the theory of stochastic processes. **99d:60001**
Stoyanov, Jordan M. Some problems of analysis that are solvable by methods of probability theory. (Russian) (*see* **99a:00015**)
Taylor, Howard M. (*with* Karlin, Samuel) ★ An introduction to stochastic modeling. **99c:60001**

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Denker, Manfred (*with* Woyczyński, Wojbor A.) ★ Introductory statistics and random phenomena. (English summary) **99k:62001**
(Filk, Thomas) *see* **Honerkamp, Josef, 99j:82001**
Honerkamp, Josef ★ Statistical physics. (English summary) **99j:82001**
Lad, Frank How big is your mathematics? (English summary) **99j:60014**
Meerschaert, Mark M. ★ Mathematical modeling. (English summary) **99k:00019**
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Woyczyński, Wojbor A. *see* **Denker, Manfred, 99k:62001**
(Ycart, Bernard) *see* **Denker, Manfred, 99k:62001**

60–02 Research exposition (monographs, survey articles)

Bojdecki, Tomasz ★ Teoría general de procesos e integración estocástica. (Spanish. Spanish summary) [General theory of processes and stochastic integration] **99k:60001**
Kolmogorov, A. N. On tables of random numbers.
Ledoux, Michel Isoperimetry and Gaussian analysis. **99h:60002**
Lin, Zhengyan (*with* Lu, Chuan Rong) ★ Limit theory for mixing dependent random variables. (English summary) **99g:60001**
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Zolotarev, Vladimir M. ★ Modern theory of summation of random variables. **99m:60002**

Items with secondary classifications in 60–02

Kunz, Hervé ★ Matrices aléatoires en physique. (French. French summary) [Random matrices in physics] **99h:82040**
Newman, Charles M. ★ Topics in disordered systems. (English summary) **99e:82052**
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60–03 Historical (must also be assigned at least one classification number from Section 01)

(Bernoulli, Daniel) *see* **Dehling, Herold G., 99b:60002**
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Dehling, Herold G. Daniel Bernoulli and the St. Petersburg paradox. **99b:60002**
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Ando, Hiromi Some problems concerning the history of the classical theory of probability. (Japanese) (*see* **99d:01002**)
(Beran, Rudolf) *see* **Hájek, Jaroslav, 99k:01086**
(Bienaymé, Irenée Jules) *see* **Bru, Bernard; et al., 99c:01011**
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Bru, Bernard (*with* Bru, Marie-France; Bienaymé, Olivier) La statistique critiquée par le calcul des probabilités: deux manuscrits inédits d'Irenée Jules Bienaymé. (English and French summaries) [The critique of statistics on the grounds of probability theory: two unpublished manuscripts of Irenée Jules Bienaymé] **99c:01011**
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Chung, Kai Lai Probability and Doob. **99g:01026**
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(Dupač, Václav) *see* **Hájek, Jaroslav, 99k:01086**
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(Johnson, Norman Lloyd²) *see* **Leading personalities in statistical sciences, 99c:62002** *and* **Breakthroughs in statistics, 99d:62001**
(Kotz, Samuel) *see* **Leading personalities in statistical sciences, 99c:62002** *and* **Breakthroughs in statistics, 99d:62001**
(Leibniz, Gottfried Wilhelm) *see* **Struve, Horst, 99k:01019**
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Seneta, E. Early influences on probability and statistics in the Russian empire. (English summary) **99k:01027**
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Struve, Rolf *see* **Struve, Horst, 99k:01019**

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60–04 Explicit machine computation and programs (not the theory of computation or programming)

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Wilson, David Bruce Annotated bibliography of perfectly random sampling with Markov chains. (*see* **99b:60003**)

60–06 Proceedings, conferences, collections, etc.

(Accardi, Luigi) *see* **Probability towards 2000, 99b:60004**
(Aldous, David J.) *see* **Microsurveys in discrete probability, 99b:60003**
(Andreas, Edgar L.) *see* **Current topics in nonstationary analysis, 99g:60003**
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(Bernard, Pierre) *see* **Barlow, Martin T., 99h:60003**
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(Carmona, René A.) *see* **Stochastic partial differential equations: six perspectives, 99g:60005**
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(Csiszár, Imre) *see* **Stochastic differential and difference equations, 99c:60002**
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(Alicki, Robert) *see* **Quantum probability, 99d:00029**
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Dubrovnik ★ Functional analysis. V. Vol. I. **99h:00028**
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Gdańsk ★ Quantum probability. **99d:00029**
Hajdúszoboszló ★ Proceedings of the 18th Seminar on Stability Problems for Stochastic Models. Part I. **99h:00033**
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60Axx Foundations of probability theory

60A05 Axioms; other general questions

Coletti, Giulianella (*with* Scozzafava, Romano) Null events and stochastical independence. (English summary) **99g:60006**
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Fraser, Donald A. S. (*with* Naderi, Amir) On the definition of conditional probability. (English summary) **99a:60001**
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Ingrassia, Salvatore *see* **Gilio, Angelo, 99e:60009**
Kamiński, Andrzej Convolution of distributors and Renyi's theory of conditional probabilities. (English summary) (*see* **99d:00009**)
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Kalman, Rudolf E. *see* **Pincus, Steve, 99d:68179**
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Roeper, Peter (*with* Leblanc, Hugues) Of A and B being logically independent of each other and of their having no common factual content. **99j:03017**
Semenov, Aleksei L'vovich *see* **Muchnik, An. A.; et al., 99h:68091**
Uspenskiĭ, V. A. *see* **Muchnik, An. A.; et al., 99h:68091**
Wagner, Carl G. Old evidence and new explanation. (English summary) **99k:03016**

60A10 Probabilistic measure theory {For ergodic theory, see 28Dxx and 60Fxx.}

Berti, Patrizia (*with* Rigo, Pietro) Sufficient conditions for the existence of disintegrations. (English summary) **99m:60005**
Hanson, David Lee Limiting sigma-algebras—some counterexamples. (English summary) **99h:60005**
Kleyle, R. *see* **de Korvin, Andre, 99f:60007**
de Korvin, Andre (*with* Kleyle, R.) A note on fuzzy conditional expectation. (English summary) **99f:60007**
Rigo, Pietro *see* **Berti, Patrizia, 99m:60005**
Tahata, Rataka On Kellerer-Strassen type marginal measure problem. (English summary) **99c:60003**
Vrkoč, Ivo Composition of independent stochastic variables. (English summary) **99m:60006**

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Alonso, Alberto (*with* Brambila-Paz, Fernando) L^p-continuity of conditional expectations. (English summary) **99d:60047**
Bardaro, Carlo (*with* Musielak, Julian; Vinti, Gianluca) On the ergodic theorem in some spaces of random variables. **99d:46005**
Basu, Sanjib[2] (*with* Jammalamadaka, Sreenivasa Rao; Liu, Wei) Stability and infinitesimal robustness of posterior distributions and posterior quantities. (English summary) **99m:62011**
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Candeloro, Domenico Some remarks on the first digit problem. **99k:60047**
Chang, Joseph T. (*with* Pollard, D.) Conditioning as disintegration. (English summary) **99b:62001**
Chatterji, Srishti D. Measure theory and probability theory. **99i:28002**
Dubins, Lester E. (*with* Prikry, Karel) On the existence of disintegrations. (English summary) **99m:28013**
Gangopadhyay, Sreela (*with* Rao, B. V. Raja) Strategic purely nonatomic random walks. (English summary) **99c:60099**
Gutkowska, Sylwia (*with* Zięba, Wiesław) On a stability in Renyi's sense. (English summary) **99b:60007**
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Jammalamadaka, Sreenivasa Rao *see* **Basu, Sanjib[2]; et al., 99m:62011**
Kellerer, Hans G. Representation of Markov kernels by random mappings under order conditions. (English summary) **99f:28007**
Liu, Wei *see* **Basu, Sanjib[2]; et al., 99m:62011**
Ma, Bo The Fubini theorem for F-valued integrals and the strong law of large numbers. (Chinese. English and Chinese summaries) **99j:60042**
Monticino, Michael *see* **Hill, Theodore P., 99h:60099**
Musielak, Julian *see* **Bardaro, Carlo; et al., 99d:46005**
Piccinini, Laurent Convergence of nonmonotone sequence of sub-σ-fields and convergence of associated subspaces $L^p(\mathscr{B}_n)$ $(p \in [1, +\infty])$. (English summary) **99m:28006**
Plachky, Detlef Characterization of discreteness of measures by a property of unique extension. (English summary) **99k:28004**
Pollard, D. *see* **Chang, Joseph T., 99b:62001**
Prikry, Karel *see* **Dubins, Lester E., 99m:28013**
Ramachandran, D. (*with* Rüschendorf, Ludger) Duality theorems for assignments with upper bounds. **99h:28009**
Rao, B. V. Raja *see* **Gangopadhyay, Sreela, 99c:60099**
Ross, David A. Loeb measure and probability. **99d:28042**
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— *see also* **Ramachandran, D., 99h:28009**
Seising, Rudolf ★ Probabilistische Strukturen der Quantenmechanik. (German. German summary) [Probabilistic structures of quantum mechanics] **99k:81011**
Štěpán, Josef How to construct a two-dimensional random vector with a given conditional structure. (English summary) **99a:28005**
Thomsen, Wolfgang *see* **Rüschendorf, Ludger, 99j:60044**
Tsirelson, Boris (*with* Vershik, Anatoliĭ Moiseevich) Examples of nonlinear continuous tensor products of measure spaces and non-Fock factorizations. **99c:60085**
Vershik, Anatoliĭ Moiseevich *see* **Tsirelson, Boris, 99c:60085**
Vinti, Gianluca *see* **Bardaro, Carlo; et al., 99d:46005**

Yan, Catherine Huafei Decomposition of Lebesgue spaces. **99h:28011**
Zięba, Wiesław *see* **Gutkowska, Sylwia**, **99b:60007**

60A99 None of the above, but in this section

Bordley, Robert F. Quantum mechanical and human violations of compound probability principles: toward a generalized Heisenberg uncertainty principle. (English summary) **99k:60005**
de Campos Ibáñez, Luis Miguel (*with* Moral, Serafín) Independence concepts for convex sets of probabilities. (English summary) (*see* **99a:68017**)
Khrennikov, Andrei The Kolmogorov complexity of p-adic random sequences. (English summary) **99k:60006**
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Prasad, S. K. On fuzziness in a probability space. (English summary)
Wu, Hsien-Chung Probability density functions of fuzzy random variables. (English summary) **99m:60007**

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Gil, María Angeles *see* **López-Díaz, Miguel**, **99g:60023** *and* **99k:28027**
Herron, Timothy (*with* Seidenfeld, Teddy; Wasserman, Larry) Divisive conditioning: further results on dilation. (English summary) **99g:62007**
Hlawka, Edmund ★ Statistik und Gleichverteilung. (German) [Statistics and uniform distribution] **99g:11093**
Höhle, Ulrich (*with* Weber, Siegfried) Uncertainty measures, realizations and entropies. (English summary) **99d:81027**
Khrennikov, Andrei p-adic analogues of the law of large numbers and the central limit theorem. **99b:11085**
— Non-Kolmogorov probabilistic models with p-adic probabilities and foundations of quantum mechanics. **99m:81035**
Kramosil, Ivan Alternative definitions of conditional possibilistic measures. (English summary) **99a:68164**
López-Díaz, Miguel (*with* Gil, María Angeles) The λ-average value and the fuzzy expectation of a fuzzy random variable. (English summary) **99g:60023**
— (*with* Gil, María Angeles) An extension of Fubini's theorem for fuzzy random variables. (English summary) **99k:28027**
Łuczak, Tomasz (*with* Thoma, Luboš) Convergence of probabilities for the second order monadic properties of a random mapping. (English summary) **99f:03039**
Mabuchi, Shigeaki An interpretation of membership functions and the properties of general probabilistic operators as fuzzy set operators. II. Extension to three-valued and interval-valued fuzzy sets. (English summary) **99a:04009**
Seidenfeld, Teddy *see* **Herron, Timothy; et al.**, **99g:62007**
Thoma, Luboš *see* **Łuczak, Tomasz**, **99f:03039**
Wasserman, Larry *see* **Herron, Timothy; et al.**, **99g:62007**
Weber, Siegfried *see* **Höhle, Ulrich**, **99d:81027**

60Bxx Probability theory on algebraic and topological structures

60B05 Probability measures on topological spaces

Alon, Noga (*with* Boppana, Ravi B.; Spencer, Joel H.) An asymptotic isoperimetric inequality. (English summary) **99i:60003**
Bikulov, A. Kh. (*with* Volovich, I. V.) p-adic Brownian motion. (Russian. Russian summary) **99b:60006**
Boppana, Ravi B. *see* **Alon, Noga; et al.**, **99i:60003**
Bulacu, Fevronia Gâteaux metric in probability spaces. Rao distance in the verification of statistical hypotheses. (Romanian. English and Romanian summaries) **99m:60008**
Grabner, Peter J. (*with* Tichy, Robert F.) Equidistribution and Brownian motion on the Sierpiński gasket. (English summary) **99g:60007**
Jonasson, Johan Infinite divisibility of random objects in locally compact positive convex cones. (English summary) **99e:60011**
Jones, Martin L. A note on a cake cutting algorithm of Banach and Knaster. **99e:60012**
Lachout, Petr Weak convergence in Hoffmann-Jørgensen sense. (English summary) **99f:60008**
Leonte, Aristide On probability measures of finite expectation.
Rosalsky, Andrew (*with* Rosenblatt, Joseph) On the rate of convergence of series of Banach space valued random elements. **99c:60004**
Rosenblatt, Joseph *see* **Rosalsky, Andrew**, **99c:60004**
Spencer, Joel H. *see* **Alon, Noga; et al.**, **99i:60003**
Tichy, Robert F. *see* **Grabner, Peter J.**, **99g:60007**
Volovich, I. V. *see* **Bikulov, A. Kh.**, **99b:60006**
Yu, Jing Hu The dimensions of finite measures on a probability space and their distribution. (Chinese. English and Chinese summaries) **99m:60009**

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Asada, Akira (*with* Tanabe, Nobuhiko) A remark on infinite-dimensional Gaussian integral in a Sobolev space. (English summary) **99d:58031**
Beneš, Viktor *see* **Štěpán, Josef**, **99e:44005**
Caballero, María Emilia (*with* Fernández, Begoña; Nualart, David) Composition of skeletons and support theorems. (English summary) **99f:60107**
Chang, Joseph T. (*with* Pollard, D.) Conditioning as disintegration. (English summary) **99b:62001**
Eichelsbacher, Peter (*with* Schmock, Uwe) Exponential approximations in completely regular topological spaces and extensions of Sanov's theorem. (English summary) **99h:60052**
Feng, Shui Large deviation upper bound and its application to measure valued processes. (English summary) **99m:60045**
Fernández, Begoña *see* **Caballero, María Emilia; et al.**, **99f:60107**
Hanin, Leonid G. An extension of the Kantorovich norm. **99m:46173**
Hertling, Peter H. (*with* Weihrauch, Klaus) Randomness spaces (extended abstract). (English summary) (*see* **99m:68007**)
Hoffmann-Jørgensen, Jørgen Convergence in law of random elements and random sets. **99h:60007**
Jardas, Cvetan (*with* Pečarić, Josip; Sarapa, Nikola) On summability of pairs of convolution sequences of probability measures on locally compact semigroups. (English summary) **99m:60011**
Khrennikov, Andrei p-adic valued probability measures. (English summary) **99e:46103**
Nualart, David *see* **Caballero, María Emilia; et al.**, **99f:60107**
O'Brien, George L. (*with* Watson, W. Stephen) Relative compactness for capacities, measures, upper semicontinuous functions and closed sets. (English summary) **99m:28008**
Pečarić, Josip *see* **Jardas, Cvetan; et al.**, **99m:60011**
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Rachev, Svetlozar T. (*with* Rüschendorf, Ludger) ★ Mass transportation problems. Vol. I. (English summary) **99k:28006**
— (*with* Rüschendorf, Ludger) ★ Mass transportation problems. Vol. II. (English summary) **99k:28007**
Rüschendorf, Ludger *see* **Rachev, Svetlozar T.**, **99k:28006** *and* **99k:28007**
Sarapa, Nikola *see* **Jardas, Cvetan; et al.**, **99m:60011**
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Štěpán, Josef (*with* Beneš, Viktor) Moment decompositions of measure spaces. (English summary) **99e:44005**
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Voiculescu, Dan-Virgil The derivative of order 1/2 of a free convolution by a semicircle distribution. (English summary) **99d:46086**
Wang, Cheng Yong Asymptotic estimates of the average errors of best uniform approximation on the Wiener space. (Chinese. Chinese summary) **99d:41043**
Watson, W. Stephen *see* **O'Brien, George L.**, **99m:28008**
Weihrauch, Klaus *see* **Hertling, Peter H.**, (**99m:68007**)

60B10 Convergence of probability measures

Arcones, Miguel A. Weak convergence of convex stochastic processes. (English summary) **99i:60004**
Arcudi, Ornella Convergence of conditional expectations given the random variables of a Skorohod representation. (English summary) **99j:60003**
Belili, Nacereddine A theorem of stochastic representation related to Monge-Kantorovich problem. (English summary) **99j:60004**
Bogachev, Vladimir I. (*with* Mayer-Wolf, Eduardo) Flows generated by vector fields of Sobolev type, and the corresponding transformations of probability measures. (Russian) **99f:60009**
Castaing, Charles (*with* Valadier, Michel) Weak convergence using Young measures. (English summary) **99m:60010**
Delbaen, Freddy A remark on Slutsky's theorem. **99k:60007**
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Hamadouche, D. Weak convergence of smoothed empirical process in Hölder spaces. (English summary) **99a:60003**
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Ivanoff, B. Gail (*with* Lin, Yan-Xia; Merzbach, Ely) Weak convergence of set-indexed point processes and the Poisson process. (English summary) **99e:60013**
Jardas, Cvetan (*with* Pečarić, Josip; Sarapa, Nikola) On summability of pairs of convolution sequences of probability measures on locally compact semigroups. (English summary) **99m:60011**
Koltchinskii, Vladimir I. Differentiability of inverse operators and limit theorems for inverse functions. (English summary) **99e:60014**
Lasserre, Jean B. Weak convergences of probability measures: a uniform principle. (English summary) **99a:60004**
Lin, Yan-Xia *see* **Ivanoff, B. Gail; et al.**, **99e:60013**
Matsunawa, Tadashi *see* **Yamada, Tomoya**, **99m:60012**
Mayer-Wolf, Eduardo *see* **Bogachev, Vladimir I.**, **99f:60009**
Merzbach, Ely *see* **Ivanoff, B. Gail; et al.**, **99e:60013**
Mikami, Toshio Equivalent conditions on the central limit theorem for a sequence of probability measures on **R**. (English summary) **99h:60008**
Nessibi, M. M. (*with* Sifi, Mohamed) Laguerre hypergroup and limit theorem. (English summary) **99g:60008**
Park, Sung Ki Generalizations of limit theorems by A. V. Skorokhod. (English summary) **99e:60015**
Pečarić, Josip *see* **Jardas, Cvetan; et al.**, **99m:60011**
Sarapa, Nikola *see* **Jardas, Cvetan; et al.**, **99m:60011**
Sifi, Mohamed *see* **Nessibi, M. M.**, **99g:60008**
Tarieladze, V. I. On Ito-Nisio type theorems for DS-groups. (English summary) **99b:60008**
Telöken, Klaus Limit theorems for probability measures on totally disconnected groups. **99j:60005**
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Zeuner, Hansmartin A limit theorem on a family of infinite joins of hypergroups. (English summary) **99c:60005**
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Dupuis, Paul (*with* Ellis, Richard S.) ★ A weak convergence approach to the theory of large deviations. (English summary) **99f:60057**

Ellis, Richard S. *see* **Dupuis, Paul**, **99f:60057**

Korshunov, D. A. Tightness and continuity of a family of invariant measures of Markov chains depending on a parameter. (Russian. Russian summary) **99g:60110**

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Letta, G. Convergence stable et applications. [Stable convergence and applications] **99g:28006**

Li, Xin[3] (*with* Mikusiński, Piotr; Taylor, M. D.) Strong approximation of copulas. (English summary) **99j:60029**

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Mikusiński, Piotr *see* **Li, Xin[3]; et al.**, **99j:60029**

Neuenschwander, Daniel (*with* Schott, René) A note on domains of attraction for q-transformed random variables. (English summary) **99k:60036**

— The Prokhorov-Loève law of large numbers on countable subgroups of simply connected step 2-nilpotent Lie groups. (English summary) **99k:60088**

Paulauskas, Vygantas *see* **Bloznelis, M.**, **99f:60038**

Rachev, Svetlozar T. (*with* Rüschendorf, Ludger) ★ Mass transportation problems. Vol. II. (English summary) **99k:28007**

Rieffel, Marc A. Metrics on states from actions of compact groups. (English summary) **99k:46126**

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Ruzsa, Imre Z. Absolute convergence of an infinite convolution. **99i:60016**

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Schott, René *see* **Neuenschwander, Daniel**, **99k:60036**

Sikora, Radosław Limit points of random iterations of monotone maps. (English summary) **99m:60099**

Taylor, M. D. *see* **Li, Xin[3]; et al.**, **99j:60029**

Voit, Michael Berry-Esséen-type inequalities for ultraspherical expansions. (English summary) **99m:60031**

Wang, Cheng Yong Asymptotic estimates of the average errors of best uniform approximation on the Wiener space. (Chinese. Chinese summary) **99d:41043**

60B11 Probability theory on linear topological spaces [see also 28C20]

Bogachev, Vladimir I. On the small ball problem for equivalent Gaussian measures. (Russian. Russian summary) **99j:60006**

Bradley, Richard C. A "coboundary" theorem for sums of random variables taking their values in a Banach space. (English summary) **99e:60016**

Braverman, Michael (*with* Samorodnitsky, Gennady) Symmetric infinitely divisible processes with sample paths in Orlicz spaces and absolute continuity of infinitely divisible processes. (English summary) **99h:60009**

Çapar, U. Fusions of stable measures in Banach spaces. (Russian summary) **99h:60010**

Chantladze, T. (*with* Kandelaki, N.) On a class of covariance operators. (English summary) **99i:60005**

Chasco Ugarte, Ma. Jesús (*with* Nguyen Duy Tien; Tarieladze, V. I.) Some remarks on random series in Banach spaces. (English summary) **99f:60010**

Fernique, Xavier *see* **Mathieu, Frédéric**, **99k:60009**

Geiss, Stefan A counterexample concerning the relation between decoupling constants and UMD-constants. (English summary) **99f:60011**

Giuliano Antonini, Rita Sub-Gaussian random variables in Hilbert spaces. **99e:60017**

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Jonasson, Johan On positive random objects. (English summary) **99i:60006**

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Marcus, Michael B. A sufficient condition for the continuity of high order Gaussian chaos processes. **99i:60007**

Mathieu, Frédéric (*with* Fernique, Xavier) En appliquant un théorème de Talagrand: une caractérisation des espaces auto-reproduisants. (English and French summaries) [Applying Talagrand's theorem to characterize the reproducing kernel spaces] **99k:60009**

Nguyen Duy Tien *see* **Chasco Ugarte, Ma. Jesús; et al.**, **99f:60010**

Ponomarenko, A. I. Second-order random linear functionals. I. (Ukrainian. Ukrainian summary) **99h:60011**

— Second-order random linear functionals. II. (Ukrainian. Ukrainian summary) **99h:60012**

Samorodnitsky, Gennady *see* **Braverman, Michael**, **99h:60009**

Schechtman, Gideon *see* **Hitczenko, Paweł; et al.**, **99k:60008**

Schlumprecht, Thomas *see* **Hitczenko, Paweł; et al.**, **99k:60008**

Shatskikh, S. Ya. Conditional quantiles of Gaussian measures in Hilbert space. (English summary) **99i:60008**

Shimomura, Hiroaki 1-cocycles for rotationally invariant measures. (English summary) **99b:60009**

Tarieladze, V. I. *see* **Chasco Ugarte, Ma. Jesús; et al.**, **99f:60010**

von Weizsäcker, Heinrich Sudakov's typical marginals, random linear functionals and a conditional central limit theorem. (English summary) **99c:60006**

Zinn, Joel *see* **Hitczenko, Paweł; et al.**, **99k:60008**

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Abdellaoui, Taoufiq Optimal solution of a Monge-Kantorovitch transportation problem. (English summary) **99k:60030**

Adler, André Unusual laws of large numbers for l_p random elements. (English summary) **99g:60042**

Castañeda-Leyva, Netzahualcóyotl (*with* Pérez-Abreu, Víctor) Characterization and approximation of infinitely divisible distributions on Hilbert spaces. (English summary) **99h:60024**

Đặng Hùng Thắng Random mappings on infinite-dimensional spaces. (English summary) **99c:60133**

— Series and spectral representations of random stable mappings. (English summary) **99d:60074**

Dinh Quang Lu'u Further decomposition and convergence theorems for Banach space-valued martingale-like sequences. (English summary) **99a:60049**

Egorov, A. D. L_2-isomorphic Gaussian models for a class of functional integrals with respect to non-Gaussian quasimeasures. (Russian. English and Russian summaries) **99d:28021**

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Gallamov, M. M. Extension of mappings of a Banach space onto sets of positive Wiener measure. (Russian. English and Russian summaries) **99f:46063**

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Jonasson, Johan Infinite divisibility of random objects in locally compact positive convex cones. (English summary) **99e:60011**

Kikuchi, Masato Linear functionals on certain martingale Hardy spaces. (English summary) **99j:60059a**

— *see also* **Errata: "Linear functionals on certain martingale Hardy spaces"**, **99j:60059b**

Krugova, E. P. On shifts of convex measures. (Russian. Russian summary) **99m:28032**

Li, Shoumei (*with* Ogura, Yukio) Convergence of set valued sub- and supermartingales in the Kuratowski-Mosco sense. (English summary) **99i:60021**

Luo, Shun-Long A nonlinear deformation of Wiener space. (English summary) **99j:60076**

Nagaev, Sergei Some refinements of probabilistic and moment inequalities. (Russian. Russian summary) **99e:60053**

Ogura, Yukio *see* **Li, Shoumei**, **99i:60021**

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Pirogov, S. A. Ball packings and moment inequalities. (English summary) **99k:60045**

Privault, Nicolas Absolute continuity in infinite dimensions and anticipating stochastic calculus. (English summary) **99h:28028**

Rosalsky, Andrew (*with* Rosenblatt, Joseph) On the rate of convergence of series of Banach space valued random elements. **99c:60004**

Rosenblatt, Joseph *see* **Rosalsky, Andrew**, **99c:60004**

Schwartz, Laurent La fonction aléatoire du mouvement brownien [MR 21 #6037]. [The random function of Brownian motion] (*see* **99f:00036**)

Temirgaliev, N. T. On the construction of probability measures of functional classes. (Russian) **99k:60034**

Turdebek, N. Bekjan PL-convexity of complex spaces and inequalities for analytic martingales. (Chinese. English and Chinese summaries) **99e:60115**

Üstünel, Ali Suleyman (*with* Zakai, Moshe) On the uniform integrability of the Radon-Nikodým densities for Wiener measure. (English summary) **99j:60055**

Vrkoč, Ivo Composition of independent stochastic variables. (English summary) **99m:60006**

Zakai, Moshe *see* **Üstünel, Ali Suleyman**, **99j:60055**

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Errata:

"Linear functionals on certain martingale Hardy spaces" Erratum: "Linear functionals on certain martingale Hardy spaces" [Interdiscip. Inform. Sci. **4** (1998), no. 1, 85–96; MR 99j:60059a] by M. Kikuchi. **99j:60059b**

60B12 Limit theorems for vector-valued random variables (infinite-dimensional case)

Arcones, Miguel A. Weak convergence for the row sums of a triangular array of empirical processes under bracketing conditions. (English summary) **99e:60018**

Bentkus, V. (*with* Götze, Friedrich; Zaĭtsev, A. Yu.[1]) Approximation of quadratic forms of independent random vectors by accompanying laws. (Russian) **99b:60010**

Bloznelis, M. On the rate of normal approximation in $D[0, 1]$. (English and Lithuanian summaries) **99g:60009**

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Aramyan, R. G. Measure generation in the space of planes, and spherical Euler functionals. (Russian. English and Russian summaries) **99h:52007**
Arratia, Richard On the central role of scale invariant Poisson processes on $(0,\infty)$. (English summary) **99i:60098**
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60Exx Distribution theory [see also 62Exx, 62Hxx]

60E05 Distributions: general theory

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Lee, Jaewon Two theorems for Poisson measures on hypergroups. (English summary) **99f:28018**
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60E10 Characteristic functions; other transforms

Averkamp, R. (*with* Houdré, Christian) Some distributional properties of the continuous wavelet transform of random processes. (English summary) **99e:60048**
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Bartoszewicz, Jarosław Characterizations of the dispersive order of distributions by the Laplace transform. (English summary) **99h:60019**
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Borisov, I. S. (*with* Panchenko, D. A.; Skilyagina, G. I.) On minimal smoothness conditions for asymptotic expansions of moments in the CLT. (English summary) **99k:60052**
Borovkov, A. A. (*with* Mogul'skiĭ, A. A.) The second function of deviations and asymptotic problems of the reconstruction and attainment of a boundary for multidimensional random walks. (Russian. Russian summary) **99h:60139**
Christoph, Gerd (*with* Schreiber, Karina) Discrete stable random variables. (English summary) **99e:60047**
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Gupta, Arjun K. (*with* Nguyen, Truc T.; Zeng, Wei-Bin) Characterization of multivariate distributions through a functional equation of their characteristic functions. (English summary) **99f:62070**
— (*with* Kabe, D. G.) A note on the characteristic functions of spherical matrix distributions. (English summary) **99c:62154**
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Ferger, Dietmar Moment inequalities for U-statistics with degeneracy of higher order. (English summary) **99i:60038**
Fernandez-Ponce, J. M. (*with* Kochar, Subhash; Muñoz-Perez, J.) Partial orderings of distributions based on right-spread functions. (English summary) **99d:60015**
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Green, Michael Lawson Inequalities for random fields. (English summary) **99g:60039**
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Brown, Timothy C. (*with* Hamza, Kais; Xia, Aihua) On the variance to mean ratio for random variables from Markov chains and point processes. (English summary) **99f:60134**
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Godbole, Anant P. (*with* Hitczenko, Paweł) Beyond the method of bounded differences. (English summary) **99i:60040**
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Hou, You Liang (*with* Liu, Pei De) b_p^+ weighted inequalities for Clifford martingales. (Chinese. English and Chinese summaries) **99g:60084**
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Hu, Yao Zhong Itô-Wiener chaos expansion with exact residual and correlation, variance inequalities. (English summary) **99b:60079**
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— Processus empiriques absolument réguliers et entropie universelle. (English and French summaries) [Absolutely regular empirical processes and universal entropy] **99h:60075**
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Yoshihara, Ken-ichi Central limit theorems for weighted $D[0,1]$-valued mixing sequences. I. Functional central limit theorems for weighted sums. **99e:60096**
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Zhang, Bo[5] Functional limit theorems for random sums. (Russian)
Zhang, Hanqin (*with* Xu, Guang Hui[1]) A new proof of the invariance principle for renewal processes. (English summary) **99i:60079**
— Strong approximations of irreducible closed queueing networks. (English summary) **99c:60074**
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Berger, Erich An almost sure invariance principle for stochastic approximation procedures in linear filtering theory. (English summary) **99c:62231**

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Berzin, Corinne (*with* León, José R.; Ortega, Joaquín) Study of the asymptotic behaviour of non-linear functionals for the empirical bridge via strong approximations. (English and French summaries) **99g:60043**

— (*with* León, José R.; Ortega, Joaquín) Level crossings and local time for regularized Gaussian processes. (English summary) **99i:60087**

Blanco, Liliana A construction of branching Brownian motion. (Spanish. English and Spanish summaries) **99j:60127**

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Chang, Kuo-Hwa (*with* Serfozo, Richard F.; Szczotka, Władysław) Treelike queueing networks: asymptotic stationarity and heavy traffic. (English summary) **99e:60201**

Cho, Nhansook On the square of Brownian density process. (English summary) **99e:60170**

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Chuprunov, A. N. Functional limit theorems for sums of independent random variables with replacements. (English summary) **99f:60017**

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Dawson, Donald A. (*with* Kouritzin, Michael A.) Invariance principles for parabolic equations with random coefficients. (English summary) **99c:60128**

Deheuvels, Paul (*with* Lifshits, Mikhail) On the Hausdorff dimension of the set generated by exceptional oscillations of a Wiener process. (English summary) **99b:60137**

Delattre, Sylvain (*with* Jacod, Jean) A central limit theorem for normalized functions of the increments of a diffusion process, in the presence of round-off errors. (English summary) **99f:60041**

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Dikta, Gerhard On semiparametric random censorship models. (English summary) **99b:60043**

Drees, Holger A general class of estimators of the extreme value index. (English summary) **99c:62085**

Dudek, Dorota (*with* Zięba, Wiesław) A note on the strong tightness in $C[0, 1]$. (English summary) **99f:60066**

Duffield, N. G. (*with* Whitt, Ward) Large deviations of inverse processes with nonlinear scalings. (English summary) **99m:60043**

Dunyak, James P. (*with* Freidlin, Mark I.) Optimal residence time control of Hamiltonian systems perturbed by white noise. (English summary) **99d:49049**

Dupuis, Paul (*with* Ellis, Richard S.) ★ A weak convergence approach to the theory of large deviations. (English summary) **99f:60057**

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— (*with* Wellner, Jon A.) Uniform convergence in some limit theorems for multiple particle systems. (English summary) **99c:60042**

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— *see also* **Mikosch, Thomas, 99b:62146**

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Pukhal'skiĭ, A. A. (*with* Whitt, Ward) Functional large deviation principles for waiting and departure processes. (English summary) **99f:60160**

Quine, Malcolm P. (*with* Szczotka, Władysław) Asymptotic normality of processes with a branching structure. (English summary) **99k:60216**

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Yoshihara, Ken-ichi ★ Weakly dependent stochastic sequences and their applications. Vol. I. **99e:60002**
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60F20 Zero-one laws

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Wang, Hong[6] Generalized zero-one laws for large-order statistics. (English summary) **99c:60075**

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Gänssler, Peter (*with* Rost, Daniel; Ziegler, Klaus) On random measure processes with application to smoothed empirical processes. **99h:60072**
Glasner, Eli (*with* King, Jonathan L.) A zero-one law for dynamical properties. (English summary) **99d:28039**
Hu, Yue Yun (*with* Shi, Zhan) The local time of simple random walk in random environment. (English summary) **99m:60105**
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Lee, Travis (*with* Minzner, Max; Fisher, Evan) Excursions of a random walk related to the strong law of large numbers. **99h:60141**
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60F25 L^p-limit theorems

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Rüschendorf, Ludger (*with* Thomsen, Wolfgang) Closedness of sum spaces and the generalized Schrödinger problem. (Russian summary) **99j:60044**
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Chandra, Tapas K. (*with* Ghosal, Subhashis) Some elementary strong laws of large numbers: a review. **99m:60051**
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Gonzalez-Velasco, Miguel (*with* Molina Fernández, Manuel) A note on the L^1-convergence of a superadditive bisexual Galton-Watson process. **99j:60128**
Huang, Yenkun Almost sure convergence of stochastic Taylor expansions for functions of real-valued two-parameter continuous Brownian semimartingales. (English summary) **99f:60099**
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Roberts, Gareth O. (*with* Rosenthal, Jeffrey S.) Geometric ergodicity and hybrid Markov chains. (English summary) **99b:60122**
Rodkina, A. E. On asymptotical normality of stochastic procedures with retardation. (English summary) **99g:62126**
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Sakhanenko, A. I. Estimates for the accuracy of constructions on a probability space in the central limit theorem. (Russian. Russian summary) **99k:60066**
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Stanković, Srdjan S. (*with* Tadich, V.) On the convergence of a stochastic gradient algorithm in the problem of learning in neural networks. (Russian. Russian summary) **99k:60091**
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Wu, Xianwei L_2-theory for infinite particle systems with potentials. (English summary) **99g:60194**

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Adell, José A. (*with* Sangüesa, Carmen) Rates of uniform convergence in the real inversion theorem for Laplace transforms. (English summary) **99j:60045**
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Ethier, S. N. (*with* Kurtz, Thomas G.) Coupling and ergodic theorems for Fleming-Viot processes. (English summary) **99f:60074**
Fedorov, Ya. V. (*with* Sommers, Hans-Jürgen; Khoruzhenko, Boris A.) Universality in the random matrix spectra in the regime of weak non-Hermiticity. (English and French summaries) **99i:60080**
Girko, Vyacheslav L. Canonical spectral equation for the eigenvalues of empirical covariance matrices. (English summary) **99e:60098**
Jakševičius, Šarūnas On a method for the expansion of probabilities of lattice random variables. (Russian. Russian summary) **99c:60076**
Jang, Lee-Chae (*with* Kwon, Joong-Sung) A uniform strong law of large numbers for partial sum processes of fuzzy random variables indexed by sets. (English summary)
Khorunzhiĭ, A. M. (*with* Kirsch, Werner) Limit of infinite band width for product of two random matrices. (English summary) **99b:60050**
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— *see also* **Boutet de Monvel-Berthier, Anne-Marie, 99k:60100**
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— (*with* Hashimoto, Yukihiro; Obata, Nobuaki) A role of singletons in quantum central limit theorems. (English summary) **99m:81110**
Bentkus, V. (*with* Götze, Friedrich; Zaĭtsev, A. Yu.[1]) Approximation of quadratic forms of independent random vectors by accompanying laws. (Russian) **99b:60010**
Bouton, Catherine (*with* Pagès, Gilles) About the multidimensional competitive learning vector quantization algorithm with constant gain. (English summary) **99a:60075**
Enriquez, Nathanaël (*with* Franchi, Jacques; Le Jan, Yves) Enroulements des géodésiques sous la mesure de Patterson-Sullivan. (English and French summaries) [Stable windings of geodesics under the Patterson-Sullivan measure] **99k:58143**
Franchi, Jacques *see* **Enriquez, Nathanaël; et al., 99k:58143**
Gegout-Petit, A. Approximate filter for the conditional law of a partially observed process in nonlinear filtering. (English summary) **99d:93068**
Girko, Vyacheslav L. ★ Statistical analysis of observations of increasing dimension. (English summary) **99a:62081**
— The V-density of eigenvalues of nonsymmetric random matrices and rigorous proof of the strong circular law. (English summary) **99b:15029**
Götze, Friedrich (*with* Zaĭtsev, A. Yu.[1]) Estimates for the rapid decay of concentration functions of n-fold convolutions. (English summary) **99f:60032**
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Pflug, Georg Ch. (*with* Ruszczyński, Andrzej; Schultz, Rüdiger) On the Glivenko-Cantelli problem in stochastic programming: linear recourse and extensions. (English summary) **99c:90084**
Ruszczyński, Andrzej *see* **Pflug, Georg Ch.; et al., 99c:90084**
Schultz, Rüdiger *see* **Pflug, Georg Ch.; et al., 99c:90084**
Shcherbina, Maria *see* **Pastur, Leonid Andreevich, 99f:82036**
Sinaĭ, Yakov Grigor'evich (*with* Soshnikov, A.) Central limit theorem for traces of large random symmetric matrices with independent matrix elements. (English summary) **99f:60053**
Snell, Michael R. An analogue to the Edgeworth-Esseen expansion. **99h:42006**
Soshnikov, A. *see* **Sinaĭ, Yakov Grigor'evich, 99f:60053**
Trotter, William T. (*with* Winkler, Peter M.) Ramsey theory and sequences of random variables. (English summary) **99e:60035**
Vidyasagar, Mathukumalli An introduction to some statistical aspects of PAC learning theory. (English summary) **99d:68215**
Winkler, Peter M. *see* **Trotter, William T., 99e:60035**
Yor, Marc On certain discounted arc-sine laws. **99b:60123**
Yoshida, Hiroaki *see* **Hiwatashi, Osamu; et al., 99m:46155**
Zaĭtsev, A. Yu.[1] *see* **Bentkus, V.; et al., 99b:60010** *and* **Götze, Friedrich, 99f:60032**

60Gxx Stochastic processes

60G05 Foundations of stochastic processes

Alonso, Alberto (*with* Brambila-Paz, Fernando) L^p-continuity of conditional expectations. (English summary) **99d:60047**
Brambila-Paz, Fernando *see* **Alonso, Alberto, 99d:60047**
Hamada, Mitsuru *see* **Han, Te Sun, 99m:60059**
Han, Te Sun (*with* Hamada, Mitsuru) Disjointness of random sequence sets with respect to distinct probability measures. (English summary) **99m:60059**
Serra, Jean C. Equicontinuous random functions. (English summary) **99g:60072**
Smorodinsky, Meir Processes with no standard extension. (English summary) **99k:60101**

Items with secondary classifications in 60G05

Benassi, Albert (*with* Cohen, Serge; Istas, Jacques) Identifying the multifractional function of a Gaussian process. (English summary) **99h:60080**
Borovkov, K. A. An estimate for the distribution of a stopping time for a stochastic system. (Russian. Russian summary) **99k:60113**
Cohen, Serge *see* **Benassi, Albert; et al., 99h:60080**
Delbaen, Freddy (*with* Schachermayer, Walter) The fundamental theorem of asset pricing for unbounded stochastic processes. **99k:60117**
Istas, Jacques *see* **Benassi, Albert; et al., 99h:60080**
Schachermayer, Walter *see* **Delbaen, Freddy, 99k:60117**

60G07 General theory of processes

Borovkov, A. A. On boundedness of stochastic sequences and estimates of their moments. (English summary) **99i:60081**
Dan, Andrei Characterization of the invariant measure for a minimal process. (Romanian. English summary)
Hoffman, Christopher Unpredictable nearest neighbor processes. (English summary) **99m:60060**
Liu, Tong Kai Stochastic summation processes and their applications. (Chinese)
Schwartz, Laurent Calcul infinitésimal stochastique [MR 89g:60180]. (French summary) [Infinitesimal stochastic calculus] (*see* **99b:00010**)
Tsirelson, Boris Within and beyond the reach of Brownian innovation. (English summary) **99i:60082**
Yasuda, Kumi Additive processes on local fields. (English summary) **99b:60051**

Items with secondary classifications in 60G07

Averkamp, R. (*with* Houdré, Christian) Some distributional properties of the continuous wavelet transform of random processes. (English summary) **99e:60048**
Baek, Jong-Il (*with* Choi, Jeong-Yeol; Ru, Dae-Hee) A weak ordering of positive dependence structure of stochastic processes. (English summary) **99h:60028**
(Chen, Zong Xun) *see* **Lin, Huo Nan, 99j:60060**
Choi, Jeong-Yeol *see* **Baek, Jong-Il; et al., 99h:60028**
Cocozza-Thivent, Christiane ★ Processus stochastiques et fiabilité des systèmes. (French. French summary) [Stochastic processes and system reliability] **99h:60001**
Feldman, Jacob[1] (*with* Rudolph, Daniel J.) Standardness of sequences of σ-fields given by certain endomorphisms. (English summary) **99h:28033**
Fourati, S. Points de croissance des processus de Lévy et théorie générale des processus. (English summary) [Increase times of Lévy processes and general theory of processes] **99e:60164**
Houdré, Christian *see* **Averkamp, R., 99e:60048**
Lin, Huo Nan (*with* Zhuang, Xing Wu) Note on the paper: "On right continuity of a family of two-parameter σ-fields" [Stochastic Process. Appl. **66** (1997), no. 1, 107–113; MR 97k:60131] by C. Zongxun. (Chinese. English and Chinese summaries) **99j:60060**
Montgomery-Smith, Stephen J. Concrete representation of martingales. (English summary) **99k:60116**
Ru, Dae-Hee *see* **Baek, Jong-Il; et al., 99h:60028**
Rudolph, Daniel J. *see* **Feldman, Jacob**[1], **99h:28033**
Sturm, Karl-Theodor Diffusion processes and heat kernels on metric spaces. (English summary) **99b:31008**
Zhuang, Xing Wu *see* **Lin, Huo Nan, 99j:60060**

60G09 Exchangeability

Bassan, Bruno (*with* Scarsini, Marco) Finite row-column exchangeable arrays. (English summary) **99i:60083**
Freedman, D. A. De Finetti's theorem in continuous time. (English summary) **99d:60048**
Jenvey, E. Strong stationarity and de Finetti's theorem. (English summary) **99h:60076**
Pitman, Jim Partition structures derived from Brownian motion and stable subordinators. (English summary) **99c:60078**
Scarsini, Marco *see* **Bassan, Bruno, 99i:60083**
Wedlin, Attilio On the notion of second-order exchangeability. (English summary) **99a:60037**

Items with secondary classifications in 60G09

Daras, Tryfon Trajectories of exchangeable sequences: large and moderate deviations results. (English summary) **99h:60049**
Ding, Ke Yue (*with* Su, Chun) Some limit properties of DRCE random arrays. (Chinese. English and Chinese summaries) **99i:60067**
Dooley, Anthony H. (*with* Fan, Ai Hua) Chains of Markovian projections and (G, Γ)-measures. (English summary) **99c:28058**
Fan, Ai Hua *see* **Dooley, Anthony H., 99c:28058**
Gross, Kenneth I. (*with* Richards, Donald St. P.) Algebraic methods toward higher-order probability inequalities. **99k:60040**
Ivanov, Aleksandr Vladimirovich (*with* Ivchenko, G. I.) On waiting time in the Markov-Pólya scheme. (English summary) **99j:60012**
Ivchenko, G. I. *see* **Ivanov, Aleksandr Vladimirovich, 99j:60012**
Monticino, Michael Constructing prior distributions with trees of exchangeable processes. (English summary) **99j:60065**
Regazzini, Eugenio De Finetti's reconstruction of the Bayes-Laplace paradigm. (English summary) **99a:62007**
Richards, Donald St. P. *see* **Gross, Kenneth I., 99k:60040**
Su, Chun *see* **Ding, Ke Yue, 99i:60067**

60G10 Stationary processes

Bradley, Richard C. On the simultaneous behavior of the dependence coefficients associated with three mixing conditions. (English summary) **99i:60084**
Chen, Zhen Long Properties of the polar sets of Brownian sheets. (Chinese. English and Chinese summaries) **99k:60102**
Cheng, Bing (*with* Tong, Howell) A theory of wavelet representation and decomposition for a general stochastic process. **99e:60100**
Endow, Yasushi Gibbs differentiations of p-adic harmonizable processes and their applications to linear p-adic systems. (English summary) **99g:60073**
Giuliano Antonini, Rita On the asymptotic behaviour of sub-Gaussian processes. **99k:60103**
Jørgensen, Bent (*with* Song, Peter Xue-Kun) Stationary time series models with exponential dispersion model margins. (English summary) **99e:60101**
Klotz, L. Orthogonal projection and restricted subordination of Hilbert-Schmidt operator-valued stationary processes. (English summary) **99i:60085**
Kontoyiannis, Ioannis Asymptotic recurrence and waiting times for stationary processes. (English summary) **99e:60102**
Lee, Chanho Stability of a class of pth-order nonlinear autoregressive processes. (English summary) **99e:60103**
— Asymptotics of a class of pth-order nonlinear autoregressive processes. (English summary) **99f:60075**
Lopes, Artur Oscar (*with* Lopes, Silvia) Parametric estimation and spectral analysis of piecewise linear maps of the interval. (English summary) **99j:60047**
Lopes, Silvia *see* **Lopes, Artur Oscar, 99j:60047**
Luo, Shao Ming (*with* Zhang, Xiang Wei) The wavelet analysis method of stationary random processes. (Chinese. English and Chinese summaries) **99m:60061**
Makagon, A. (*with* Miamee, A. G.) On the spectrum of correlation autoregressive sequences. (English summary) **99f:60076**
Marton, Katalin Measure concentration for a class of random processes. (English summary) **99g:60074**
Miamee, A. G. *see* **Makagon, A., 99f:60076**
Nowicka, Joanna (*with* Weron, Aleksander) Measures of dependence for ARMA models with stable innovations. (English summary) **99a:60038**
Prigarin, S. M. On the interpolation of positive definite functions and stationary random sequences. (English summary)
Rachdi, Mustapha Choix de la largeur de fenêtre spectrale par validation croisée pour un processus stationnaire à temps continu. (English and French summaries) [Cross-validated choice of spectral bandwidth for a continuous stationary process] **99h:60077**
Rosiński, Jan Structure of stationary stable processes. (English summary) (*see* **99f:62010**)
Song, Peter Xue-Kun *see* **Jørgensen, Bent, 99e:60101**
Tian, Bo Ping *see* **Xu, Cheng De, 99i:60086**
Tong, Howell *see* **Cheng, Bing, 99e:60100**
Volný, Dalibor Invariance principles and Gaussian approximation for strictly stationary processes. (English summary) **99m:60062**
Weron, Aleksander *see* **Nowicka, Joanna, 99a:60038**
Xu, Cheng De (*with* Tian, Bo Ping) One-sided dyadic moving average representations of multidimensional dyadic stationary sequences. (Chinese. English and Chinese summaries) **99i:60086**
Xu, Shaogang An ergodic process of zero divergence-distance from the class of all stationary processes. (English summary) **99c:60079**
Zhang, Xiang Wei *see* **Luo, Shao Ming, 99m:60061**

Items with secondary classifications in 60G10

Adams, Terrence M. (*with* Nobel, Andrew B.) On density estimation from ergodic processes. (English summary) **99m:62038**
Alaya, Mohamed Ben (*with* Pagès, Gilles) Rate of convergence for computing expectations of stopping functionals of an α-mixing process. (English summary) **99h:60039**

Alekseev, V. G. New modifications of periodograms of the second and third orders. (Russian. Russian summary) **99d:62081**
Ango Nze, Patrick (*with* Doukhan, Paul) Functional estimation for time series: uniform convergence properties. (English summary) **99g:62130**
Bel, Liliane (*with* Oppenheim, G.; Robbiano, Luc; Viano, M. C.) Linear distribution processes. (English summary) **99c:60083**
Bertoin, Jean Darling-Erdős theorems for normalized sums of i.i.d. variables close to a stable law. (English summary) **99k:60191**
Binkowska, M. (*with* Kamiński, Brunon) On finitary shifts. **99e:28024**
Bradley, Richard C. (*with* Utev, Sergei) On second-order properties of mixing random sequences and random fields. (English summary) **99f:60092**
Bui Khoi Dam Approximation orders in the conditional central limit theorem for weakly dependent random variables. (English summary) **99i:60045**
Chojnowska-Michalik, A. Stationary solutions for heat equation perturbed by general additive noise. (English summary) **99b:60088**
Dedecker, Jérôme A central limit theorem for stationary random fields. (English summary) **99e:60058**
Dembo, Amir (*with* Zeitouni, Ofer) Moderate deviations for iterates of expanding maps. (English summary) **99k:60072**
Deschamps, Véronique Maume Equilibrium states for non-Hölderian random dynamical systems. (English summary) **99a:58104**
Doukhan, Paul *see* **Ango Nze, Patrick, 99g:62130**
Etemadi, N. (*with* Sriram, T. N.; Vidyashankar, A. N.) L_p convergence of reciprocals of sample means with applications to sequential estimation in linear regression. (English summary) **99d:60046**
Ethier, S. N. (*with* Kurtz, Thomas G.) Coupling and ergodic theorems for Fleming-Viot processes. (English summary) **99f:60074**
Ferrante, Augusto *see* **Michaletzky, György, 99g:93038**
Flandrin, Patrick (*with* Martin, Wolfgang) The Wigner-Ville spectrum of nonstationary random signals. (English summary) (*see* **99k:94018**)
Francq, Christian (*with* Zakoïan, Jean-Michel) Estimation de la précision asymptotique dans l'estimation de modèles ARMA faibles. (English and French summaries) [Covariance matrix estimation for estimators of weak ARMA models] **99i:62202**
Gaposhkin, V. F. Spectral criteria for the existence of generalized ergodic transformations. (Russian. Russian summary) **99d:28034**
Glynn, Peter W. (*with* Sigman, Karl) Independent sampling of a stochastic process. (English summary) **99g:60086**
Gubina, N. I. (*with* Ogorodnikov, V. A.) Some problems of the statistical simulation of conditional processes and fields. (English summary) **99i:86013**
de Haan, Laurens *see* **Rootzén, Holger; et al., 99e:60070**
Haiman, George Upper and lower bounds for the tail of the invariant distribution of some AR(1) processes. (English summary) **99k:60132**
Hanin, Leonid G. (*with* Schreiber, Bertram M.) Discrete spectrum of nonstationary stochastic processes on groups. (English summary) **99i:60013**
Horváth, Lajos (*with* Kokoszka, Piotr) The effect of long-range dependence on change-point estimators. (English summary) **99c:62061**
Hsing, Tailen (*with* Leadbetter, M. Ross) On the excursion random measure of stationary processes. (English summary) **99k:60057**
Htay, Win Win Optimalities for random functions: Lee-Wiener's network and non-canonical representation of stationary Gaussian processes. (English summary) **99f:60079**
Huang, Da Wei Stochastic FM models and non-linear time series analysis. (English summary) **99a:60019**
Hurelbaatar, G. A strong approximation for logarithmic averages of partial sums of random variables. (English summary) **99c:60067**
Jakubowski, Adam (*with* Nagaev, Aleksandr Viktorovich; Zaigraev, A. Yu.) Large deviation probabilities for sums of heavy-tailed dependent random vectors. (English summary) **99d:60033**
— Minimal conditions in p-stable limit theorems. II. (English summary) **99g:60031**
Jenvey, E. Strong stationarity and de Finetti's theorem. (English summary) **99h:60076**
Kamiński, Brunon *see* **Binkowska, M., 99e:28024**
Kent, John T. (*with* Wood, Andrew T. A.) Estimating the fractal dimension of a locally self-similar Gaussian process by using increments. (English summary) **99a:62136**
Kiesel, Rüdiger Strong laws and summability for φ-mixing sequences of random variables. (English summary) **99c:60069**
Kokoszka, Piotr *see* **Horváth, Lajos, 99c:62061**
Kurtz, Thomas G. *see* **Ethier, S. N., 99f:60074**
Kvatadze, Z. A. Limit theorems for conditionally m-dependent random variables. (Russian. English and Georgian summaries) **99m:60033**
Leadbetter, M. Ross *see* **Rootzén, Holger; et al., 99e:60070** *and* **Hsing, Tailen, 99k:60057**
Lewis, John T. (*with* Pfister, Charles E.; Russell, Raymond P.; Sullivan, Wayne G.) Reconstruction sequences and equipartition measures: an examination of the asymptotic equipartition property. (English summary) **99b:94013**
Lewis, Thomas M. Limit theorems for partial sums of quasi-associated random variables. **99k:60086**
Lin, Zhengyan Convergence on randomly trimmed sums with a dependent sample. (English summary) **99k:60058**
Lu, Chuan Rong (*with* Yu, Hao) A note on how small are the increments of a fractional Wiener process? (English summary) **99k:60107**
Marcus, Michael B. (*with* Shen, Kevin) Bounds for the expected number of level crossings of certain harmonizable infinitely divisible processes. (English summary) **99h:60105**
Martin, Wolfgang *see* **Flandrin, Patrick, (99k:94018)**
Matuła, Przemysław Probability and moment bounds for sums of negatively associated random variables. (English summary) **99h:60033**
Matúš, František Combining m-dependence with Markovness. (English and French summaries) **99f:60126**
Michaletzky, György (*with* Ferrante, Augusto) Splitting subspaces and acausal spectral factors. (English summary) **99g:93038**
Mikosch, Thomas (*with* Norvaiša, R.) Uniform convergence of the empirical spectral distribution function. (English summary) **99b:62146**
Morettin, Pedro A. Wavelets in statistics. (English summary) **99c:62107**
Mück, Stefan Semilinear stochastic equations for symmetric diffusions. (English summary) **99a:60062**
Mukhamedov, A. K. Weak convergence of empirical processes and a probability inequality for the Kolmogorov-Smirnov statistic of weakly dependent random variables. (Russian. English and Uzbek summaries) **99g:60071**
Nagaev, Aleksandr Viktorovich *see* **Jakubowski, Adam; et al., 99d:60033**
Nobel, Andrew B. *see* **Adams, Terrence M., 99m:62038**
Norvaiša, R. *see* **Mikosch, Thomas, 99b:62146**
Novak, S. Yu. Extreme values in stationary sequences. (English summary) **99g:60092**
— On the limiting distribution of extrema. (English summary) **99k:60123**
Ogorodnikov, V. A. *see* **Gubina, N. I., 99i:86013**
Oppenheim, G. *see* **Bel, Liliane; et al., 99c:60083**
Pagès, Gilles *see* **Alaya, Mohamed Ben, 99h:60039**
Peligrad, Magda On the blockwise bootstrap for empirical processes for stationary sequences. (English summary) **99g:62051**
Pfister, Charles E. *see* **Lewis, John T.; et al., 99b:94013**
Popović, Biljana Č. The likelihood functions of some autoregressive time series. (English summary) (*see* **99d:00009**)
Popovici, Dan Self-dual Hilbert C^*-modules and stationary processes. **99g:46082**
Radulović, Dragan The bootstrap of empirical processes for α-mixing sequences. (English summary) **99h:60042**
Resnick, Sidney I. (*with* Stărică, Catalin) Tail index estimation for dependent data. (English summary) **99k:60136**
Robbiano, Luc *see* **Bel, Liliane; et al., 99c:60083**
Rootzén, Holger (*with* Leadbetter, M. Ross; de Haan, Laurens) On the distribution of tail array sums for strongly mixing stationary sequences. (English summary) **99e:60070**
Russell, Raymond P. *see* **Lewis, John T.; et al., 99b:94013**
Schreiber, Bertram M. *see* **Hanin, Leonid G., 99i:60013**
Shen, Kevin *see* **Marcus, Michael B., 99h:60105**
Sigman, Karl *see* **Glynn, Peter W., 99g:60086**
Sriram, T. N. *see* **Etemadi, N.; et al., 99d:60046**
Stadje, Wolfgang Two ergodic sample-path properties of the Poisson process. (English summary) **99h:60096**
Stărică, Catalin *see* **Resnick, Sidney I., 99k:60136**
Sullivan, Wayne G. *see* **Lewis, John T.; et al., 99b:94013**
Sun, Jiaming An extension of the Gärtner-Ellis theorem with applications to reversible Markov chains and some stationary sequences. (English summary) **99f:60064**
Utev, Sergei *see* **Bradley, Richard C., 99f:60092**
Viano, M. C. *see* **Bel, Liliane; et al., 99c:60083**
Vidyashankar, A. N. *see* **Etemadi, N.; et al., 99d:60046**
Wood, Andrew T. A. *see* **Kent, John T., 99a:62136**
Yu, Hao *see* **Lu, Chuan Rong, 99k:60107**
Zaigraev, A. Yu. *see* **Jakubowski, Adam; et al., 99d:60033**
Zakoïan, Jean-Michel *see* **Francq, Christian, 99i:62202**
Zeitouni, Ofer *see* **Dembo, Amir, 99k:60072**

60G12 General second-order processes

Cheng, Ximing *see* **Liu, Huowang; et al., 99h:60078**
Chiu, Yukuang The multiplicity of stochastic processes. **99b:60052**
Kawasaki, Shu-Ji Weak-stationarity conditions for wavelet processes. (English summary) **99a:60039**
Liu, Huowang (*with* Pan, Yimin; Cheng, Ximing) Rate of wavelet approximation of stochastic processes. (English summary) **99h:60078**
Matuła, Przemysław A note on mixing properties of certain associated processes. (English summary) **99k:60104**
Miamee, A. G. *see* **Smith, Gregory L., 99h:60079**
Pan, Yimin *see* **Liu, Huowang; et al., 99h:60078**
Smith, Gregory L. (*with* Miamee, A. G.) A two-dimensional power spectral study for some nonstationary processes. (English summary) **99h:60079**

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Hösel, Volker On the estimation of covariance functions of P_n-weakly stationary processes. (English summary) **99i:62223**
Mallat, Stéphane (*with* Papanicolaou, George C.; Zhang, Zhifeng) Adaptive covariance estimation of locally stationary processes. (English summary) **99f:62116**
Papanicolaou, George C. *see* **Mallat, Stéphane; et al., 99f:62116**
Zhang, Zhifeng *see* **Mallat, Stéphane; et al., 99f:62116**

60G15 Gaussian processes

Albeverio, Sergio (*with* Zhang, Tu Sheng) Approximations of Ornstein-Uhlenbeck processes with unbounded linear drifts. (English summary) **99f:60077**
Bagh, S. Average number of real roots of random harmonic equations. (English summary) **99k:60105**
Beghi, Alessandro Continuous-time Gauss-Markov processes with fixed reciprocal dynamics. (English summary) **99i:60089**
— *see also* **Levy, Bernard C., 99i:60088**
Benassi, Albert (*with* Cohen, Serge; Istas, Jacques) Identifying the multifractional function of a Gaussian process. (English summary) **99h:60080**
— (*with* Cohen, Serge; Istas, Jacques; Jaffard, Stéphane) Identification of filtered white noises. (English summary) **99e:60104**
Berzin, Corinne (*with* León, José R.; Ortega, Joaquín) Level crossings and local time for regularized Gaussian processes. (English summary) **99i:60087**
Borges, Carlos F. (*with* Frezza, Ruggero) On models of Gaussian reciprocal processes and the reconstruction of periodic Jacobi matrices. (English summary) **99j:60048**
Cohen, Serge *see* **Benassi, Albert; et al., 99e:60104** *and* **99h:60080**
Csörgő, Miklós (*with* Horváth, Lajos; Szyszkowicz, Barbara) Integral tests for suprema of Kiefer processes with application. (English summary) **99c:60080**

Dębicki, Krzysztof (*with* Michna, Zbigniew; Rolski, Tomasz) On the supremum from Gaussian processes over infinite horizon. (English summary) **99g:60075**
Delmas, Céline An asymptotic expansion for the distribution of the maximum of a class of Gaussian fields. (English and French summaries) **99m:60063**
Enchev, Ognian B. White noise indexed by loops. (English summary) **99g:60076**
Fernique, Xavier ★ Fonctions aléatoires gaussiennes, vecteurs aléatoires gaussiens. (French) [Gaussian random functions, Gaussian random vectors] **99f:60078**
Frezza, Ruggero *see* **Borges, Carlos F., 99j:60048**
Hargé, Gilles Une inégalité de décorrélation pour la mesure gaussienne. (English and French summaries) [A decorrelation inequality for the Gaussian measure] **99h:60081**
He, Sheng Wu (*with* Wang, Jia Gang) Gaussian measures on white noise spaces. (Chinese. English and Chinese summaries) **99h:60082**
Horváth, Lajos *see* **Csörgő, Miklós; et al., 99c:60080**
Htay, Win Win Optimalities for random functions: Lee-Wiener's network and non-canonical representation of stationary Gaussian processes. (English summary) **99f:60079**
Istas, Jacques *see* **Benassi, Albert; et al., 99e:60104** *and* **99h:60080**
Jacod, Jean On continuous conditional Gaussian martingales and stable convergence in law. (English summary) **99c:60081**
Jaffard, Stéphane *see* **Benassi, Albert; et al., 99e:60104**
Kôno, Norio The exact modulus of continuity for Gaussian processes taking values of a finite-dimensional normed space. (English summary) (*see* **98k:60004**)
Kuelbs, James *see* **Li, Wenbo V., 99k:60106**
León, José R. *see* **Berzin, Corinne; et al., 99i:60087**
Levy, Bernard C. (*with* Beghi, Alessandro) Discrete-time Gauss-Markov processes with fixed reciprocal dynamics. (English summary) **99i:60088**
Li, Wenbo V. (*with* Kuelbs, James) Some shift inequalities for Gaussian measures. (English summary) **99k:60106**
Lu, Chuan Rong (*with* Yu, Hao) A note on how small are the increments of a fractional Wiener process? (English summary) **99k:60107**
Marcus, Michael B. (*with* Talagrand, Michel) Continuity conditions for a class of Gaussian chaos processes related to continuous additive functionals of Lévy processes. (English summary) **99i:60090**
Michna, Zbigniew Self-similar processes in collective risk theory. (English summary) **99j:60049**
— *see also* **Dębicki, Krzysztof; et al., 99g:60075**
van Neerven, J. M. A. M. Nonsymmetric Ornstein-Uhlenbeck semigroups in Banach spaces. (English summary) **99h:60083**
Norris, James R. Ornstein-Uhlenbeck processes indexed by the circle. (English summary) **99g:60077**
Ortega, Joaquín *see* **Berzin, Corinne; et al., 99i:60087**
Rolski, Tomasz *see* **Dębicki, Krzysztof; et al., 99g:60075**
Shen, Zhao Xuan Sample path properties of Gaussian processes. (Chinese. English and Chinese summaries)
Sinaĭ, Yakov Grigor'evich On the distribution of the maximum of fractional Brownian motion. (Russian) **99j:60050**
Szyszkowicz, Barbara *see* **Csörgő, Miklós; et al., 99c:60080**
Talagrand, Michel A general lower bound for Gaussian chaos. (English summary) **99b:60053**
— Multiple points of trajectories of multiparameter fractional Brownian motion. (English summary) **99j:60051**
— *see also* **Marcus, Michael B., 99i:60090**
Wang, Jia Gang *see* **He, Sheng Wu, 99h:60082**
Wang, Xiao Ming^2 (*with* Wang, Xue Biao) Weak convergence of high-level crossings and maxima for stationary Gaussian processes with strong dependence. (Chinese. English and Chinese summaries)
Wang, Xue Biao *see* **Wang, Xiao Ming^2**
Wschebor, Mario Distribution of the maximum of a Gaussian process. The method of Rice. (Spanish) (*see* **99a:00040**)
Xiao, Yimin Weak variation of Gaussian processes. (English summary) **99a:60040**
— Hausdorff-type measures of the sample paths of fractional Brownian motion. (English summary) **99h:60084**
Xie, Sheng Rong Extreme sojourns of Gaussian processes with a differentiable covariance function. (Chinese. English and Chinese summaries) **99m:60064**
Yu, Hao *see* **Lu, Chuan Rong, 99k:60107**
Zhang, Tu Sheng *see* **Albeverio, Sergio, 99f:60077**

Items with secondary classifications in 60G15

Beder, Jay H. (*with* Gomulkiewicz, Richard) Computing the selection gradient and evolutionary response of an infinite-dimensional trait. (English summary) **99f:92009**
Bercu, Bernard (*with* Gamboa, F.; Rouault, A.) Large deviations for quadratic forms of stationary Gaussian processes. (English summary) **99c:60052**
Bikulov, A. Kh. (*with* Volovich, I. V.) p-adic Brownian motion. (Russian. Russian summary) **99b:60005**
Bogachev, Vladimir I. (*with* Mayer-Wolf, Eduardo) Flows generated by vector fields of Sobolev type, and the corresponding transformations of probability measures. (Russian) **99f:60009**
— On the small ball problem for equivalent Gaussian measures. (Russian. Russian summary) **99j:60006**
Bolthausen, Erwin (*with* Ioffe, Dimitri) Harmonic crystal on the wall: a microscopic approach. (English summary) **99b:82034**
Boumaza, Rachid Distribution asymptotique de l'affinité L^2 de densités gaussiennes. (English and French summaries) [Asymptotic distribution of L^2-affinity between Gaussian densities] **99k:62046**
Brandão, Augusto (*with* Kolsrud, Torbjörn) Phase space transformations of Gaussian diffusions. (English summary) **99m:60116**
Choi, U Jin (*with* Choi, Yong Kab; Lee, Byung Soo) On partial sums of a Gaussian sequence with stationary increments. (English summary) **99i:60063**
Choi, Yong Kab *see* **Choi, U Jin; et al., 99i:60063**
Dawson, Donald A. (*with* Hochberg, Kenneth J.; Vinogradov, V. V.) The Wiener process revisited. (English summary) **99a:60027**
Egorov, A. D. L_2-isomorphic Gaussian models for a class of functional integrals with respect to non-Gaussian quasimeasures. (Russian. English and Russian summaries) **99d:28021**
Eisenbaum, Nathalie Une version sans conditionnement du théorème d'isomorphisms de Dynkin. (English summary) [An unconditioned version of Dynkin's isomorphism theorem] **99e:60171**
— Théorèmes limites pour les temps locaux d'un processus stable symétrique. (French summary) [Limit theorems for the local times of a symmetric stable process] **99f:60138**
Gamboa, F. *see* **Bercu, Bernard; et al., 99c:60052**
Giné, Evarist A consequence for random polynomials of a result of de la Peña and Montgomery-Smith. **99h:60030**
Ginovyan, M. S. Asymptotic properties of estimates for the spectrum of a homogeneous Gaussian field. (Russian. Armenian summary) **99i:62230**
Gluskin, Efim D. On the stability of the volume radius. (English summary) **99m:52007**
Gomulkiewicz, Richard *see* **Beder, Jay H., 99f:92009**
Gordon, Yehoram (*with* Guédon, Olivier; Meyer, Mathieu) An isomorphic Dvoretzky's theorem for convex bodies. (English summary) **99d:46011**
Guédon, Olivier Gaussian version of a theorem of Milman and Schechtman. (English summary) **99i:46008**
— *see also* **Gordon, Yehoram; et al., 99d:46011**
Hitczenko, Paweł (*with* Kwapień, Stanisław; Li, Wenbo V.; Schechtman, Gideon; Schlumprecht, Thomas; Zinn, Joel) Hypercontractivity and comparison of moments of iterated maxima and minima of independent random variables. (English summary) **99k:60008**
Hochberg, Kenneth J. *see* **Dawson, Donald A.; et al., 99a:60027**
Hösel, Volker On the estimation of covariance functions of P_n-weakly stationary processes. (English summary) **99i:62223**
Houdré, Christian Comparison and deviation from a representation formula. **99k:60041**
Hu, Yao Zhong Itô-Wiener chaos expansion with exact residual and correlation, variance inequalities. (English summary) **99b:60079**
— (*with* Kallianpur, Gopinath) Exponential integrability and application to stochastic quantization. (English summary) **99c:60117**
Ioffe, Dimitri *see* **Bolthausen, Erwin, 99b:82034**
Kallianpur, Gopinath *see* **Hu, Yao Zhong, 99c:60117**
Kasahara, Yuji (*with* Kosugi, Nobuko) A limit theorem for occupation times of Gaussian processes. (English summary) **99f:60046**
Kent, John T. (*with* Wood, Andrew T. A.) Estimating the fractal dimension of a locally self-similar Gaussian process by using increments. (English summary) **99a:62136**
Kolsrud, Torbjörn *see* **Brandão, Augusto, 99m:60116**
Kormos, J. (*with* Pap, G.) Nearly unstable multidimensional AR processes. (English summary) **99g:62139**
Kosugi, Nobuko *see* **Kasahara, Yuji, 99f:60046**
Koval′, V. A. The law of the iterated logarithm for Gaussian sequences and its applications. (Ukrainian. Ukrainian summary) **99h:60063**
Krasnit·skiĭ, S. M. On some sufficient conditions for equivalence of Gaussian measures corresponding to generalized random fields. (English summary) **99k:60110**
Kratz, Marie F. (*with* Rootzén, Holger) On the rate of convergence for extremes of mean square differentiable stationary normal processes. (English summary) **99b:60063**
Kubo, Izumi Non-isotropic Ornstein-Uhlenbeck process and white noise analysis. **99h:60113**
Kwapień, Stanisław *see* **Hitczenko, Paweł; et al., 99k:60008**
Lacey, Michael T. Bourgain's entropy criteria. **99c:28051**
Le Breton, Alain Filtering and parameter estimation in a simple linear system driven by a fractional Brownian motion. (English summary) **99c:60088**
Ledoux, Michel Isoperimetry and Gaussian analysis. **99h:60002**
— A short proof of the Gaussian isoperimetric inequality. (English summary) **99j:60027**
Lee, Byung Soo *see* **Choi, U Jin; et al., 99i:60063**
Li, Wenbo V. *see* **Hitczenko, Paweł; et al., 99k:60008**
Marcus, Michael B. A sufficient condition for the continuity of high order Gaussian chaos processes. **99i:60007**
Mayer-Wolf, Eduardo *see* **Bogachev, Vladimir I., 99f:60009**
Meyer, Mathieu *see* **Gordon, Yehoram; et al., 99d:46011**
Mizumachi, Hitoshi (*with* Satô, Hiroshi[1]) Absolute continuity of two-valued stochastic parallel translations of a Gaussian measure. (Japanese) (*see* **99i:00029**)
Pap, G. *see* **Kormos, J., 99g:62139**
de la Peña, Víctor H. From dependence to complete independence: the decoupling approach. (English summary) **99h:60035**
Rootzén, Holger *see* **Kratz, Marie F., 99b:60063**
Rouault, A. *see* **Bercu, Bernard; et al., 99c:60052**
de la Rue, Thierry Rang des systèmes dynamiques gaussiens. (English summary) [Rank of Gaussian dynamical systems] **99d:28038**
Satô, Hiroshi[1] *see* **Mizumachi, Hitoshi, (99i:00029)**
Schechtman, Gideon *see* **Hitczenko, Paweł; et al., 99k:60008**
Schilling, René L. On Feller processes with sample paths in Besov spaces. (English summary) **99b:60117**
Schlumprecht, Thomas *see* **Hitczenko, Paweł; et al., 99k:60008**
Vinogradov, V. V. *see* **Dawson, Donald A.; et al., 99a:60027**
Vladimirescu, Ion Contributions to the study of the inverse Gaussian distribution.
Volovich, I. V. *see* **Bikulov, A. Kh., 99b:60006**
Watanabe, Toshiro Sato's conjecture on recurrence conditions for multidimensional processes of Ornstein-Uhlenbeck type. **99a:60076**
Wood, Andrew T. A. *see* **Kent, John T., 99a:62136**
Xu, Xi Wen The properties of algebraic sums of image sets of an N-parameter d-dimensional generalized Wiener process. (Chinese. English and Chinese summaries) **99k:60210**
Zani, Marguerite Grandes déviations pour des formes quadratiques de processus gaussiens localement stationnaires. (English and French summaries) [Large deviations for quadratic forms of locally stationary Gaussian processes] **99i:60060**
Zhang, Li-Xin A note on liminfs for increments of a fractional Brownian motion. **99f:60070**

— On the fractal nature of increments of l^p-valued Gaussian processes. (English summary) **99a:60041**
Zinn, Joel *see* **Hitczenko, Pawel; et al., 99k:60008**

60G17 Sample path properties

Bardet, Jean-Marc Dimension de corrélation locale et dimension de Hausdorff des processus vectoriels continus. (English and French summaries) [Local correlation dimension and Hausdorff dimension of continuous random fields] **99h:60085**
Hong, Wen Ming (*with* Wu, Rong[1]) Intersection problems for OU-type processes with continuous trajectories. (Chinese. English and Chinese summaries) **99k:60108**
Martínez, F. (*with* Villena Muñoz, Armando R.) Path regularity and regularity in mean of 1st order processes. (English summary) **99i:60091**
Schilling, René L. Feller processes generated by pseudo-differential operators: on the Hausdorff dimension of their sample paths. (English summary) **99c:60082**
Shieh, Narn-Rueih Multiple points of dilation-stable Lévy processes. (English summary) **99j:60052**
— (*with* Taylor, S. James) Logarithmic multifractal spectrum of stable occupation measure. (English summary) **99g:60078**
Taylor, S. James *see* **Shieh, Narn-Rueih, 99g:60078**
Villena Muñoz, Armando R. *see* **Martínez, F., 99i:60091**
Wu, Rong[1] *see* **Hong, Wen Ming, 99k:60108**
Zhang, Li-Xin On the fractal nature of increments of l^p-valued Gaussian processes. (English summary) **99a:60041**

Items with secondary classifications in 60G17

Anderson, James Milne (*with* Pitt, Loren D.) Large time asymptotics for Brownian hitting densities of transient concave curves. (English summary) **99b:60133**
Bass, Richard F. (*with* Burdzy, Krzysztof) Cutting Brownian paths. (English summary) **99g:60146**
Bel, Liliane (*with* Oppenheim, G.; Robbiano, Luc; Viano, M. C.) Linear distribution processes. (English summary) **99c:60083**
Benassi, Albert (*with* Cohen, Serge; Istas, Jacques) Identifying the multifractional function of a Gaussian process. (English summary) **99h:60080**
Braverman, Michael (*with* Samorodnitsky, Gennady) Symmetric infinitely divisible processes with sample paths in Orlicz spaces and absolute continuity of infinitely divisible processes. (English summary) **99h:60009**
Burdzy, Krzysztof *see* **Bass, Richard F., 99g:60146**
Carmona, René A. (*with* Viens, Frederi G.) Almost-sure exponential behavior of a stochastic Anderson model with continuous space parameter. (English summary) **99c:60126**
Cohen, Serge *see* **Benassi, Albert; et al., 99h:60080**
Conti, P. L. (*with* Orsingher, Enzo) Limiting distributions of randomly accelerated motions. (English and Lithuanian summaries) **99c:60040**
Csörgő, Miklós (*with* Norvaiša, R.) Empirical and partial sum processes with sample paths in Banach function spaces. (English summary) **99e:60090**
Deheuvels, Paul (*with* Lifshits, Mikhail) On the Hausdorff dimension of the set generated by exceptional oscillations of a Wiener process. (English summary) **99b:60137**
— On the local oscillations of empirical and quantile processes. (English summary) **99i:60076**
— (*with* Mason, David M.) Random fractal functional laws of the iterated logarithm. **99g:60061**
Delgado, Rosario (*with* Jolis, Maria) Quadratic variation and Riemann sums for the generalized multiple Skorokhod integral. (English summary) **99f:60098**
Deng, Ai Jiao *see* **Li, Bing Zhang**
Dhersin, Jean-Stéphane (*with* Le Gall, Jean-François) Kolmogorov's test for super-Brownian motion. (English summary) **99g:60153**
— Lower functions for the support of super-Brownian motion. (English summary) **99j:60041**
Dozzi, Marco (*with* Soltani, A. Reza) Local time for stable moving average processes: Hölder conditions. (English summary) **99a:60081**
Eberle, Andreas Diffusions on path and loop spaces: existence, finite-dimensional approximation and Hölder continuity. (English summary) **99k:58194**
Evans, Steven N. (*with* Peres, Yuval) Eventual intersection for sequences of Lévy processes. (English summary) **99g:60130**
Fernique, Xavier ★ Fonctions aléatoires gaussiennes, vecteurs aléatoires gaussiens. (French) [Gaussian random functions, Gaussian random vectors] **99f:60078**
Feyel, Denis (*with* de La Pradelle, Arnaud) On the approximate solutions of the Stratonovitch equation. (English summary) **99j:60075**
Git, Y. Almost sure path properties of branching diffusion processes. (English summary) **99m:60132**
Goldman, André Sur une conjecture de D. G. Kendall concernant la cellule de Crofton du plan et sur sa contrepartie brownienne. (English and French summaries) [On a conjecture of D. G. Kendall concerning the planar Crofton cell, and on its Brownian counterpart] **99j:60017**
Grigor'yan, Alexander (*with* Kel'bert, M. Ya.) Range of fluctuation of Brownian motion on a complete Riemannian manifold. (English summary) **99c:58170**
Guo, Jun Yi (*with* Wu, Rong[1]) The behavior of super-Brownian motion near extinction. (Chinese. English and Chinese summaries) **99e:60190**
Istas, Jacques *see* **Benassi, Albert; et al., 99h:60080**
Jolis, Maria *see* **Delgado, Rosario, 99f:60098**
Kel'bert, M. Ya. *see* **Grigor'yan, Alexander, 99c:58170**
Kôno, Norio The exact modulus of continuity for Gaussian processes taking values of a finite-dimensional normed space. (English summary) (*see* **98k:60004**)
Kwon, Joong-Sung Probability inequalities for product of symmetrized Poisson processes and their applications. (English summary) **99j:60026**
de La Pradelle, Arnaud *see* **Feyel, Denis, 99j:60075**
Le Gall, Jean-François *see* **Dhersin, Jean-Stéphane, 99g:60153**
Li, Bing Zhang (*with* Deng, Ai Jiao) Limit theorems for a class of transient stable processes. (Chinese. English and Chinese summaries)
Lifshits, Mikhail *see* **Deheuvels, Paul, 99b:60137**
Marcus, Michael B. (*with* Talagrand, Michel) Continuity conditions for a class of Gaussian chaos processes related to continuous additive functionals of Lévy processes. (English summary) **99i:60090**
— (*with* Shen, Kevin) Bounds for the expected number of level crossings of certain harmonizable infinitely divisible processes. (English summary) **99h:60105**
Marsalle, Laurence Hausdorff measures and capacities for increase times of stable processes. (English summary) **99m:60109**
Mason, David M. *see* **Deheuvels, Paul, 99g:60061**
Mörters, Peter The average density of the path of planar Brownian motion. (English summary) **99d:60092**
Nakatsuka, Toshinao Absorbing process in recursive stochastic equations. (English summary) **99g:93083**
Nasyrov, F. S. On continuous local times for functions and random processes. II. (English summary) **99g:60135**
Norvaiša, R. *see* **Csörgő, Miklós, 99e:60090**
Oppenheim, G. *see* **Bel, Liliane; et al., 99c:60083**
Orsingher, Enzo *see* **Conti, P. L., 99c:60040**
Peres, Yuval *see* **Evans, Steven N., 99g:60130**
Pietruska-Pałuba, Katarzyna Asymptotic behaviour for the surviving Brownian motion on the Sierpiński gasket with Poisson obstacles. (English summary) **99c:60155**
Pitt, Loren D. *see* **Anderson, James Milne, 99b:60133**
Robbiano, Luc *see* **Bel, Liliane; et al., 99c:60083**
Samorodnitsky, Gennady *see* **Braverman, Michael, 99h:60009**
Schied, Alexander Moderate deviations and functional LIL for super-Brownian motion. (English summary) **99d:60036**
Schilling, René L. On Feller processes with sample paths in Besov spaces. (English summary) **99b:60117**
— Growth and Hölder conditions for the sample paths of Feller processes. (English summary) **99m:60131**
Shen, Kevin *see* **Marcus, Michael B., 99h:60105**
Shen, Zhao Xuan Sample path properties of Gaussian processes. (Chinese. English and Chinese summaries)
Shields, Paul C. The interactions between ergodic theory and information theory. (English summary) **99i:94025**
Sinaĭ, Yakov Grigor'evich On the distribution of the maximum of fractional Brownian motion. (Russian) **99j:60050**
Soltani, A. Reza *see* **Dozzi, Marco, 99a:60081**
Stadje, Wolfgang Two ergodic sample-path properties of the Poisson process. (English summary) **99h:60096**
Talagrand, Michel Multiple points of trajectories of multiparameter fractional Brownian motion. (English summary) **99j:60051**
— *see also* **Marcus, Michael B., 99i:60090**
Viano, M. C. *see* **Bel, Liliane; et al., 99c:60083**
Viens, Frederi G. *see* **Carmona, René A., 99c:60126**
Wang, Xiao Ming[2] (*with* Wang, Xue Biao) Weak convergence of high-level crossings and maxima for stationary Gaussian processes with strong dependence. (Chinese. English and Chinese summaries)
Wang, Xue Biao *see* **Wang, Xiao Ming[2]**
Wschebor, Mario Distribution of the maximum of a Gaussian process. The method of Rice. (Spanish) (*see* **99a:00040**)
Wu, Rong[1] *see* **Guo, Jun Yi, 99e:60190**
Xiao, Yimin Weak variation of Gaussian processes. (English summary) **99a:60040**
— Hausdorff-type measures of the sample paths of fractional Brownian motion. (English summary) **99h:60084**
Xie, Sheng Rong Extreme sojourns of Gaussian processes with a differentiable covariance function. (Chinese. English and Chinese summaries) **99m:60064**
Zhang, Li-Xin A note on liminfs for increments of a fractional Brownian motion. **99f:60070**

60G18 Self-similar processes

Albin, J. M. P. On extremal theory for self-similar processes. (English summary) **99d:60049**
Barral, Julien Une extension de l'équation fonctionnelle de B. Mandelbrot. (English and French summaries) [An extension of Mandelbrot's functional equation] **99j:60053**
Burdzy, Krzysztof (*with* Mądrecki, Andrzej) Itô formula for an asymptotically 4-stable process. (English summary) **99a:60042**
Mądrecki, Andrzej *see* **Burdzy, Krzysztof, 99a:60042**
Nishioka, Kunio The first hitting time and place of a half-line by a biharmonic pseudo process. **99f:60080**
Samorodnitsky, Gennady Lower tails of self-similar stable processes. (English summary) **99e:60105**
Sato, Ken-iti (*with* Yamamuro, Kouji) On selfsimilar and semi-selfsimilar processes with independent increments. (English summary) **99h:60086**
Tóth, Bálint (*with* Werner, Wendelin) The true self-repelling motion. (English summary) **99i:60092**
Veneziano, Daniele Basic properties and characterization of stochastically self-similar processes in $\mathbf{R}^d$. (English summary) **99m:60065**
Werner, Wendelin *see* **Tóth, Bálint, 99i:60092**
Yamamuro, Kouji *see* **Sato, Ken-iti, 99h:60086**

Items with secondary classifications in 60G18

Abry, Patrice (*with* Veitch, Darryl; Flandrin, Patrick) Long-range dependence: revisiting aggregation with wavelets. (English summary) **99i:62192**
Bardet, Jean-Marc Dimension de corrélation locale et dimension de Hausdorff des processus vectoriels continus. (English and French summaries) [Local correlation dimension and Hausdorff dimension of continuous random fields] **99h:60085**
Benassi, Albert (*with* Cohen, Serge; Istas, Jacques; Jaffard, Stéphane) Identification of filtered white noises. (English summary) **99e:60104**

Cohen, Serge *see* **Benassi, Albert; et al., 99e:60104**
Decreusefond, Laurent (*with* Üstünel, Ali Suleyman) Fractional Brownian motion: theory and applications. (English and French summaries) **99m:60082**
Flandrin, Patrick *see* **Abry, Patrice; et al., 99i:62192**
Horváth, Lajos (*with* Kokoszka, Piotr) The effect of long-range dependence on change-point estimators. (English summary) **99c:62061**
Hutchinson, John E. (*with* Rüschendorf, Ludger) Random fractal measures via the contraction method. (English summary) **99j:60019**
Istas, Jacques *see* **Benassi, Albert; et al., 99e:60104**
Jaffard, Stéphane *see* **Benassi, Albert; et al., 99e:60104**
Kent, John T. (*with* Wood, Andrew T. A.) Estimating the fractal dimension of a locally self-similar Gaussian process by using increments. (English summary) **99a:62136**
Kokoszka, Piotr *see* **Horváth, Lajos, 99c:62061**
Kunita, Hiroshi Asymptotic self-similarity and short time asymptotics of stochastic flows. (English summary) **99c:60118**
Liu, Luqin (*with* Xiao, Yimin) Hausdorff dimension theorems for self-similar Markov processes. (English summary) **99k:60187**
Lowen, Steven B. *see* **Ryu, Bo, 99a:60050**
Molchan, G. M. Burgers equation with self-similar Gaussian initial data: tail probabilities. (English summary) **99c:60130**
Robinson, Peter M. Large-sample inference for nonparametric regression with dependent errors. (English summary) **99a:62060**
Rüschendorf, Ludger *see* **Hutchinson, John E., 99j:60019**
Ryu, Bo (*with* Lowen, Steven B.) Point process models for self-similar network traffic, with applications. (English summary) **99a:60050**
Sinaĭ, Yakov Grigor'evich On the distribution of the maximum of fractional Brownian motion. (Russian) **99j:60050**
Talagrand, Michel Multiple points of trajectories of multiparameter fractional Brownian motion. (English summary) **99j:60051**
Taqqu, Murad S. (*with* Teverovsky, Vadim) On estimating the intensity of long-range dependence in finite and infinite variance time series. (English summary) (*see* **99f:62010**)
Teverovsky, Vadim *see* **Taqqu, Murad S., (99f:62010)**
Üstünel, Ali Suleyman *see* **Decreusefond, Laurent, 99m:60082**
Veitch, Darryl *see* **Abry, Patrice; et al., 99i:62192**
Vojak, Robert Two-point statistics of statistically self-similar cascades. (English and French summaries) **99i:60102**
Wood, Andrew T. A. *see* **Kent, John T., 99a:62136**
Xiao, Yimin Hausdorff-type measures of the sample paths of fractional Brownian motion. (English summary) **99h:60084**
— *see also* **Liu, Luqin, 99k:60187**
Xiong, Shuang Ping The polarity and Hausdorff dimension of a class of self-similar Markov processes. (Chinese. English and Chinese summaries) **99j:60112**

60G20 Generalized stochastic processes

Bel, Liliane (*with* Oppenheim, G.; Robbiano, Luc; Viano, M. C.) Linear distribution processes. (English summary) **99c:60083**
Berezanskiĭ, Yurīĭ Makarovich A generalization of white noise analysis by means of theory of hypergroups. (English summary) **99c:60084**
Cartier, Pierre Processus aléatoires généralisés [MR **30** #5355]. [Generalized random processes] (*see* **99f:00040**)
Csáki, Endre (*with* Révész, Pál; Rosen, Jay) Functional laws of the iterated logarithm for local times of recurrent random walks on Z^2. (English and French summaries) **99k:60109**
Deck, Th. (*with* Potthoff, J.) On a class of stochastic partial differential equations related to turbulent transport. (English summary) **99e:60106**
Iwata, Koichiro (*with* Schäfer, Jörg) Markov property and cokernels of local operators. (English summary) **99h:60087**
Krasnit·skiĭ, S. M. On some sufficient conditions for equivalence of Gaussian measures corresponding to generalized random fields. (English summary) **99k:60110**
Lazakovich, N. V. (*with* Stashulenok, S. P.) Solutions, associated in the sense of Itô, of differential equations in the direct product of algebras of generalized random processes. (Russian. English and Russian summaries)
Lee, Yuh-Jia Convergence of Fock expansion and transformations of Brownian functionals. **99m:60066**
Litvinov, E. V. (*with* Rebenko, A. L.; Shchepanyuk, G. V.) Wick calculus on spaces of generalized functions of compound Poisson white noise. (English summary) **99j:60054**
Oppenheim, G. *see* **Bel, Liliane; et al., 99c:60083**
Potthoff, J. *see* **Deck, Th., 99e:60106**
Rebenko, A. L. *see* **Litvinov, E. V.; et al., 99j:60054**
Révész, Pál *see* **Csáki, Endre; et al., 99k:60109**
Robbiano, Luc *see* **Bel, Liliane; et al., 99c:60083**
Rosen, Jay *see* **Csáki, Endre; et al., 99k:60109**
Schäfer, Jörg Abstract Markov property and local operators. **99a:60043**
— *see also* **Iwata, Koichiro, 99h:60087**
Shchepanyuk, G. V. *see* **Litvinov, E. V.; et al., 99j:60054**
Stashulenok, S. P. *see* **Lazakovich, N. V.**
Tsirelson, Boris (*with* Vershik, Anatoliĭ Moiseevich) Examples of nonlinear continuous tensor products of measure spaces and non-Fock factorizations. **99c:60085**
Us, G. F. Towards a coloured noise analysis. (English summary) **99g:60079**
Vershik, Anatoliĭ Moiseevich *see* **Tsirelson, Boris, 99c:60085**
Viano, M. C. *see* **Bel, Liliane; et al., 99c:60083**

Items with secondary classifications in 60G20

Antonevich, Anatoliĭ B. (*with* Radyno, Ya. V.) On the theory of mnemonic functions and its applications. (Russian. English and Russian summaries) **99a:46070**
Benth, Fred Espen (*with* Gjerde, Jon) A remark on the equivalence between Poisson and Gaussian stochastic partial differential equations. (English summary) **99d:60069**
Chung, Dong Myung (*with* Ji, Un Cig) Transforms on white noise functionals with their applications to Cauchy problems. (English summary) **99b:60098**
— (*with* Ji, Un Cig; Obata, Nobuaki) Transformations on white noise functions associated with second order differential operators of diagonal type. (English summary) **99c:60134**
Gjerde, Jon *see* **Benth, Fred Espen, 99d:60069**
He, Sheng Wu (*with* Yao, Rongqin; Wang, Jia Gang) The gradient and divergent operators in white noise analysis. (English and Chinese summaries) **99c:60135**
— (*with* Wang, Jia Gang) Gaussian measures on white noise spaces. (Chinese. English and Chinese summaries) **99h:60082**
Ji, Un Cig *see* **Chung, Dong Myung, 99b:60098** *and* **99c:60134**
Kang, Soon-Ja Feynman integrals in white noise analysis. (English summary) **99i:60133**
Nishioka, Kunio The first hitting time and place of a half-line by a biharmonic pseudo process. **99f:60080**
Obata, Nobuaki Generalization of integral kernel operators. **99h:46074**
— *see also* **Chung, Dong Myung; et al., 99c:60134**
Oberguggenberger, Michael (*with* Russo, Francesco) Nonlinear SPDEs: Colombeau solutions and pathwise limits. **99i:35185**
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60G25 Prediction theory [see also 62M20]

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60G30 Continuity and singularity of induced measures

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— *see also* **Pedersen, J. L., 99c:60172**
Pitman, Jim *see* **Evans, Steven N., 99a:60068**
Quenez, M. C. *see* **El Karoui, N.; et al., 99b:60078**
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Schwartz, Laurent Calcul infinitésimal stochastique [MR 89g:60180]. (French summary) [Infinitesimal stochastic calculus] (*see* **99b:00010**)
Shirakawa, Hiroshi Evaluation of investment opportunity under entry and exit decisions. (English summary) **99e:90016**
Shiryaev, A. N. *see* **Peškir, Goran, 99j:60123**
Stramer, O. (*with* Tweedie, R. L.) Existence and stability of weak solutions to stochastic differential equations with non-smooth coefficients. (English summary) **99b:60096**
Sudderth, William D. *see* **Maitra, Ashok P., 99a:90257**
Szynal, Dominik *see* **Kuczmaszewska, Anna, 99c:60070**
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Waldmann, Karl-Heinz *see* **Hinderer, Karl, 99j:90109**
Weerasinghe, Ananda P. N. Singular optimal strategies for investment with transaction costs. (English summary) **99j:90018**
Winkler, Peter M. *see* **Lovász, László, 99h:60138**

Yasuda, Masami *see* **Kadota, Yoshinobu; et al., 99m:90159**
Ye, Jane Juan-Juan (*with* Zhu, Qiji J.) Hamilton-Jacobi theory for a generalized optimal stopping time problem. **99f:49043**
Yin, Chuan Cun (*with* Zhao, Xue Lei) Joint density of hitting time and point to an ellipse for Brownian motion. **99j:60124**
Zhao, Xue Lei *see* **Yin, Chuan Cun, 99j:60124**
Zhu, Qiji J. *see* **Ye, Jane Juan-Juan, 99f:49043**
Zin, Md. Hanafiah Md. Expected duration of a classical gambling game involving two players when the coin is symmetric. (English summary) (*see* **99g:00046**)

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Choi, Changsun A weak-type submartingale inequality. (English summary) **99f:60088**
Dellacherie, C. (*with* Taïbi, D.; Martínez, Servet A.; San Martín, Jaime) Noyaux potentiels associés à une filtration. (English and French summaries) [Potential kernels associated with a filtration] **99k:60114**
De Meyer, Bernard The maximal variation of a bounded martingale and the central limit theorem. (English and French summaries) **99c:60094**
Hou, You Liang (*with* Liu, Pei De) b_p^+ weighted inequalities for Clifford martingales. (Chinese. English and Chinese summaries) **99g:60084**
— (*with* Wei, Wen Zhan) Banach space valued martingales with respect to complex measure and their inequalities. (English summary) **99k:60115**
Kim, Byung-Il *see* **Kim, Young-Ho, 99c:60095**
Kim, Young-Ho (*with* Kim, Byung-Il) A submartingale inequality. (English summary) **99c:60095**
Krupa, G. Convergence of unbounded multivalued supermartingales in the Mosco and slice topologies. (English summary) **99j:60057**
Lindstrøm, Tom Internal martingales and stochastic integration. **99h:60091**
Liu, Pei De *see* **Hou, You Liang, 99g:60084**
Markov, E. P. *see* **Pavlov, I. V., 99g:60085**
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Meyer, Paul-André Lemme maximal et martingales (d'après D. L. Burkholder). [Maximal lemma and martingales (after D. L. Burkholder)] (*see* **99f:00042**)
Montgomery-Smith, Stephen J. Concrete representation of martingales. (English summary) **99k:60116**
Pavlov, I. V. (*with* Markov, E. P.) A finiteness criterion for the mixed norm of multiplicative martingales composed of Rademacher functions. (Russian. English and Russian summaries) **99g:60085**
San Martín, Jaime *see* **Dellacherie, C.; et al., 99k:60114**
Spreij, Peter A representation result for finite Markov chains. (English summary) **99c:60096**
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Weisz, Ferenc Inequalities and duality results with respect to two-parameter strong martingales. (Russian summary) **99c:60097**

Items with secondary classifications in 60G42

Acharya, Sarat Kumar (*with* Tripathy, Chaitanya Kumar) Convergence of mixing transforms of random sequences. (English summary)
Arcudi, Ornella Martingale and Skorokhod techniques for approximations of nonlinear filters and conditional expectations. (Italian)
Bentkus, V. (*with* Götze, Friedrich; Zaĭtsev, A. Yu.[1]) Approximation of quadratic forms of independent random vectors by accompanying laws. (Russian) **99b:60010**
Cadre, Benoît On a functional version of the convergence of a quadratic form in independent martingales to a χ^2 distribution. (Russian summary) **99m:60056**
Chaâbane, Faouzi (*with* Maâouia, Faïza; Touati, Abderrahmen) Généralisation du théorème de la limite centrale presque-sûr pour les martingales vectorielles. (English and French summaries) [Generalization of the almost-sure central limit theorem for vectorial martingales] **99i:60061**
Chandra, Tapas K. (*with* Ghosal, Subhashis) On extensions of an inequality of Kolmogorov. (English summary) **99f:60030**
— *see also* **Ghosal, Subhashis, 99f:60043**
Chao, Chern-Ching A note on applications of the martingale central limit theorem to random permutations. (English summary) **99e:60057**
Chen, Xin Xiang (*with* Zhao, Jin Zhou) The Doob stopping theorem for set-valued martingales. (Chinese. English and Chinese summaries) **99i:60094**
Choi, Changsun A weak-type inequality for differentially subordinate harmonic functions. (English summary) **99e:31006**
Elliott, Robert J. (*with* Madan, Dilip B.) A discrete time equivalent martingale measure. (English summary) **99c:90019**
Ethier, S. N. An optional stopping theorem for nonadapted martingales. (English summary) **99e:60111**
Fan, Ai Hua Gibbs measures and some related topics. (English summary) **99c:28016**
Geiss, Stefan A counterexample concerning the relation between decoupling constants and UMD-constants. (English summary) **99f:60011**
Ghosal, Subhashis (*with* Chandra, Tapas K.) Complete convergence of martingale arrays. (English summary) **99f:60043**
— *see also* **Chandra, Tapas K., 99f:60030**
Götze, Friedrich *see* **Bentkus, V.; et al., 99b:60010**
Harris, Matthew (*with* Keane, Michael S.) Random coin tossing. (English summary) **99c:60086**
Isaac, Richard On equitable ratios of Dubins-Freedman type. (English summary) **99m:60053**
Jones, Roger L. Ergodic theory and connections with analysis and probability. (English summary) **99d:28036**
Keane, Michael S. *see* **Harris, Matthew, 99c:60086**
Khusanbaev, Ya. M. (*with* Rakhimov, G. M.) On the convergence of a process associated with a difference scheme to a diffusion process. (Russian. Russian summary) **99i:60142**
Kong, Fan Liang Strong and weak laws of large numbers for B-valued asymptotic martingales. (Chinese. English and Chinese summaries) **99e:60085**
Li, Shoumei (*with* Ogura, Yukio) Convergence theorems for set valued and fuzzy valued martingales and smartingales. (English summary) **99k:60024**
Liu, Quansheng Products of random weights indexed by Galton-Watson trees. (English summary) **99h:60156**
— Fixed points of a generalized smoothing transformation and applications to the branching random walk. (English summary) **99f:60151**
Long, Rui Lin (*with* Qian, Tao) Clifford martingale Φ-equivalence between $S(f)$ and f^*. (English summary) **99k:60119**
Maâouia, Faïza *see* **Chaâbane, Faouzi; et al., 99i:60061**
Madan, Dilip B. *see* **Elliott, Robert J., 99c:90019**
Ogura, Yukio *see* **Li, Shoumei, 99k:60024**
de la Peña, Victor H. Decoupling inequalities: a second generation of martingale inequalities. (English summary) **99f:60034**
Pitt, Loren D. A distribution inequality for martingales with bounded symmetric differences. (English summary) **99i:60041**
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Račkauskas, A. On the convergence rate in the multi-dimensional martingale CLT. (English summary) **99e:60069**
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Rödler, Richard Convergence of disturbed martingales and a stochastic model for annuity funds. (English summary) **99j:90017**
Rosalsky, Andrew (*with* Rosenblatt, Joseph) On convergence of series of random variables with applications to martingale convergence and to convergence of series with orthogonal summands. (English summary) **99e:60088**
Rosenblatt, Joseph *see* **Rosalsky, Andrew, 99e:60088**
Rutkowski, M. Optimality of replication in the CRR model with transaction costs. (English summary) **99e:90015**
Simon, Péter (*with* Weisz, Ferenc) Paley type inequalities for Vilenkin-Fourier coefficients. (English summary) **99c:42050**
Teicher, Henry Strong laws for martingale differences and independent random variables. (English summary) **99i:60074**
Touati, Abderrahmen *see* **Chaâbane, Faouzi; et al., 99i:60061**
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Weisz, Ferenc Some maximal inequalities with respect to two-parameter dyadic derivative and Cesàro summability. (English summary) **99c:42053**
— Uniqueness of two-parameter dyadic martingales and Walsh-Fourier series. (English summary) **99c:42076**
— *see also* **Simon, Péter, 99c:42050**
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Zhao, Jin Zhou *see* **Chen, Xin Xiang, 99i:60094**

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Azéma, J. (*with* Rainer, Catherine; Yor, Marc) Une propriété des martingales pures. [A property of pure martingales] **99c:60098**
Bañuelos, Rodrigo (*with* Wang, Gang[2]) Orthogonal martingales under differential subordination and applications to Riesz transforms. **99a:60047**
Cheng, Guo Sheng (*with* Li, Ji Cheng; Yang, Xiao Bin) Two-parameter set-valued martingales. (Chinese. English and Chinese summaries)
Delbaen, Freddy (*with* Schachermayer, Walter) The fundamental theorem of asset pricing for unbounded stochastic processes. **99k:60117**
Elworthy, K. D. (*with* Li, Xue-Mei[2]; Yor, Marc) On the tails of the supremum and the quadratic variation of strictly local martingales. **99b:60057**
Émery, M. Closed sets supporting a continuous divergent martingale. **99b:60058**
Gao, Yong *see* **Nie, Zan Kan; et al., 99b:60060**
Hou, You Liang (*with* Liu, Pei De) Spaces of martingales with complex measure and their duals. (Chinese. English and Chinese summaries) **99e:60113**
Jacod, Jean (*with* Pérez-Abreu, Víctor) On martingales which are finite sums of independent random variables with time dependent coefficients. **99e:60114**
Li, Ji Cheng *see* **Cheng, Guo Sheng; et al.**
Li, Xue-Mei[2] *see* **Elworthy, K. D.; et al., 99b:60057**
Liang, Zongxia Two parameter smooth martingales on the Wiener space. (English summary) **99b:60059**
Liu, Pei De *see* **Hou, You Liang, 99e:60113**
Nie, Zan Kan (*with* Zhang, Wen Xiu; Gao, Yong) Optional (predictable) projections of measurable set-valued stochastic processes in reflexive Banach spaces. (Chinese. English and Chinese summaries) **99b:60060**
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Schachermayer, Walter *see* **Delbaen, Freddy, 99k:60117**
Schoutens, Wim (*with* Teugels, Jozef L.) Lévy processes, polynomials and martingales. (English summary) **99k:60118**
Stricker, C. (*with* Yan, Jia An) Some remarks on the optional decomposition theorem. (English summary) **99j:60058**
Teugels, Jozef L. *see* **Schoutens, Wim, 99k:60118**
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Yan, Jia An *see* **Stricker, C., 99j:60058**
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Zhang, Wen Xiu *see* **Nie, Zan Kan; et al., 99b:60060**

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Ahn, Hyungsok (*with* Dayal, Mohit; Grannan, Eric; Swindle, Glen) Option replication with transaction costs: general diffusion limits. (English summary) **99j:90007**
Amendinger, Jürgen (*with* Imkeller, Peter; Schweizer, Martin) Additional logarithmic utility of an insider. (English summary) **99j:90008**
Azaïs, Jean-Marc (*with* Wschebor, Mario) Oscillation presque sûre de martingales continues. (French summary) [Almost sure oscillation of continuous martingales] **99e:60055**

Baek, Jong-Il (*with* Lim, Ho-Un; Youn, Eun-Ho) A weakly dependence concept in moving average models. (English summary) **99k:62150**
Bojdecki, Tomasz ★ Teoría general de procesos e integración estocástica. (Spanish. Spanish summary) [General theory of processes and stochastic integration] **99k:60001**
Borovskikh, Yu. V. (*with* Korolyuk, Vladimir S.) ★ Martingale approximation. **99f:60001**
Chen, Xin Xiang (*with* Zhao, Jin Zhou) The Doob stopping theorem for set-valued martingales. (Chinese. English and Chinese summaries) **99i:60094**
Chen, Zengjing (*with* Peng, Shige) A decomposition theorem of g-martingales. (English summary) **99m:60086**
Chitashvili, R. (*with* Mania, M.) On functions transforming Brownian motion into a Dirichlet process. (English summary) **99e:60183**
Coquet, François (*with* Mackevičius, Vigirdas; Mémin, Jean) Stability in **D** of martingales and backward equations under discretization of filtration. (English summary) **99f:60109**
Dayal, Mohit *see* **Ahn, Hyungsok; et al., 99j:90007**
Delbaen, Freddy (*with* Schachermayer, Walter) A simple counterexample to several problems in the theory of asset pricing. (English summary) **99i:90014**
Dellacherie, C. (*with* Taïbi, D.; Martínez, Servet A.; San Martín, Jaime) Noyaux potentiels associés à une filtration. (English and French summaries) [Potential kernels associated with a filtration] **99k:60114**
Ducourtioux, Jean-Louis Comportement asymptotique de certaines martingales à valeurs dans une variété riemannienne. [Asymptotic behavior of certain martingales with values in a Riemannian manifold] **99g:58130**
Elliott, Robert J. (*with* Moore, John Barratt) A martingale Kronecker lemma and parameter estimation for linear systems. (English summary) **99h:93101**
Feldman, Jacob[1] (*with* Smorodinsky, Meir) Simple examples of non-generating Girsanov processes. (English summary) **99f:60144**
Gao, Fu Qing Chung's law of the iterated logarithm for locally square integrable martingales. (Chinese. Chinese summary)
Glonti, O. (*with* Khechinashvili, Z.) Financial (B, S)-market with Gaussian martingale. Mean square optimal hedging strategies. (English and Georgian summaries) **99j:90010**
Grannan, Eric *see* **Ahn, Hyungsok; et al., 99j:90007**
Green, Michael Lawson Inequalities for random fields. (English summary) **99g:60039**
Grigelionis, B. On mixed exponential processes and martingales. (Lithuanian summary) **99j:60110**
Huang, Zhi Yuan (*with* Ren, Jiagang) D_∞-approximation of quadratic variations of smooth Itô processes. (English summary) **99k:60142**
Imkeller, Peter *see* **Amendinger, Jürgen; et al., 99j:90008**
Jacod, Jean On continuous conditional Gaussian martingales and stable convergence in law. (English summary) **99c:60081**
— (*with* Protter, Philip) Asymptotic error distributions for the Euler method for stochastic differential equations. (English summary) **99d:60062**
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Korn, Ralf (*with* Kreer, Markus; Lenssen, Mark) Pricing of European options when the underlying stock price follows a linear birth-death process. (English summary) **99d:90019**
Korolyuk, Vladimir S. *see* **Borovskikh, Yu. V., 99f:60001**
Kreer, Markus *see* **Korn, Ralf; et al., 99d:90019**
Kurtz, Thomas G. Martingale problems for conditional distributions of Markov processes. (English summary) **99k:60186**
Kwon, Youngmee On reflected diffusion with discontinuous coefficient. (English summary) **99i:60150**
Lamberton, Damien (*with* Lapeyre, Bernard) ★ Introduction au calcul stochastique appliqué à la finance. (French) [Introduction to stochastic calculus applied to finance] **99b:90022**
Lapeyre, Bernard *see* **Lamberton, Damien, 99b:90022**
Lenssen, Mark *see* **Korn, Ralf; et al., 99d:90019**
Lim, Ho-Un *see* **Baek, Jong-Il; et al., 99k:62150**
Lunt, John (*with* Lyons, Terry; Zhang, Tu Sheng) Integrability of functionals of Dirichlet processes, probabilistic representations of semigroups, and estimates of heat kernels. (English summary) **99g:31012**
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Martínez, Servet A. *see* **Dellacherie, C.; et al., 99k:60114**
Mémin, Jean *see* **Coquet, François; et al., 99f:60109**
Moore, John Barratt *see* **Elliott, Robert J., 99h:93101**
Øksendal, Bernt ★ Stochastic differential equations. (English summary) **99c:60119**
Parthasarathy, Kalyanapuram Rangachari On some Markov processes arising from the Eyre-Hudson super Lie algebra representations. (English summary) **99g:81115**
Peng, Shige *see* **Chen, Zengjing, 99m:60086**
Perera, Gonzalo (*with* Wschebor, Mario) Crossings and occupation measures for a class of semimartingales. (English summary) **99k:60064**
Peškir, Goran (*with* Shiryaev, A. N.) On the Brownian first-passage time over a one-sided stochastic boundary. (Russian summary) **99j:60123**
Protter, Philip *see* **Jacod, Jean, 99d:60062**
Ren, Jiagang *see* **Huang, Zhi Yuan, 99k:60142**
Russo, Francesco (*with* Vallois, Pierre) Product of two multiple stochastic integrals with respect to a normal martingale. (English summary) **99b:60071**
San Martín, Jaime *see* **Dellacherie, C.; et al., 99k:60114**
Schachermayer, Walter *see* **Delbaen, Freddy, 99i:90014**
Schmidli, Hanspeter Martingales and insurance risk. **99c:62283**
Schwartz, Laurent Calcul infinitésimal stochastique [MR 89g:60180]. (French summary) [Infinitesimal stochastic calculus] (*see* **99b:00010**)
Schweizer, Martin *see* **Amendinger, Jürgen; et al., 99j:90008**
Shiryaev, A. N. *see* **Peškir, Goran, 99j:60123**
Smorodinsky, Meir *see* **Feldman, Jacob[1], 99f:60144**
Spreij, Peter A representation result for finite Markov chains. (English summary) **99c:60096**
Swindle, Glen *see* **Ahn, Hyungsok; et al., 99j:90007**
Taïbi, D. *see* **Dellacherie, C.; et al., 99k:60114**
Thalmaier, Anton Some remarks on the heat flow for functions and forms. (English summary) **99i:58157**
Vallois, Pierre *see* **Russo, Francesco, 99b:60071**
Voit, Michael A Lévy-type characterization of one-dimensional diffusions. (English summary) **99a:60086**
Watanabe, Shinzo Stochastic analysis on Wiener space. **99a:60061**
Wschebor, Mario *see* **Azaïs, Jean-Marc, 99e:60055** *and* **Perera, Gonzalo, 99k:60064**
Yoshida, Nakahiro Malliavin calculus and asymptotic expansion for martingales. (English summary) **99k:60068**
Youn, Eun-Ho *see* **Baek, Jong-Il; et al., 99k:62150**
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Zhao, Jin Zhou *see* **Chen, Xin Xiang, 99i:60094**

60G46 Martingales and classical analysis

Akcoglu, Mustafa A. (*with* Jones, Roger L.; Schwartz, Peter O.) Variation in probability, ergodic theory and analysis. **99a:60048**
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Jones, Roger L. *see* **Akcoglu, Mustafa A.; et al., 99a:60048**
Kikuchi, Masato Linear functionals on certain martingale Hardy spaces. (English summary) **99j:60059a**
— *see also* **Errata: "Linear functionals on certain martingale Hardy spaces", 99j:60059b**
Lin, Huo Nan (*with* Zhuang, Xing Wu) Note on the paper: "On right continuity of a family of two-parameter σ-fields" [Stochastic Process. Appl. **66** (1997), no. 1, 107–113; MR 97k:60131] by C. Zongxun. (Chinese. English and Chinese summaries) **99j:60060**
Long, Rui Lin (*with* Qian, Tao) Clifford martingale Φ-equivalence between $S(f)$ and f^*. (English summary) **99k:60119**
Qian, Tao *see* **Long, Rui Lin, 99k:60119**
Schwartz, Peter O. *see* **Akcoglu, Mustafa A.; et al., 99a:60048**
Turdebek, N. Bekjan PL-convexity of complex spaces and inequalities for analytic martingales. (Chinese. English and Chinese summaries) **99e:60115**
Weisz, Ferenc Weak martingale Hardy spaces. (English summary) **99h:60092**
Zhuang, Xing Wu *see* **Lin, Huo Nan, 99j:60060**

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Errata:
"Linear functionals on certain martingale Hardy spaces" Erratum: "Linear functionals on certain martingale Hardy spaces" [Interdiscip. Inform. Sci. **4** (1998), no. 1, 85–96; MR 99j:60059a] by M. Kikuchi. **99j:60059b**

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Abbey, C. K. *see* **Denny, J. L., 99f:42056**
Allouba, Hassan A non-nonstandard proof of Reimers' existence result for heat SPDEs. (English summary) **99d:60068**
Arai, Hitoshi Complex analysis in several variables and harmonic analysis. (Japanese) **99k:32022**
Bañuelos, Rodrigo (*with* Wang, Gang[2]) Orthogonal martingales under differential subordination and applications to Riesz transforms. **99a:60047**
Chevalier, Lucien Une "formule de Tanaka" en analyse harmonique et quelques applications. (French summary) [A "Tanaka formula" in harmonic analysis and some applications] **99j:42024**
Choi, Changsun A weak-type submartingale inequality. (English summary) **99f:60088**
Denny, J. L. (*with* Abbey, C. K.) Partial sums of orthonormal bases preserving positivity—and martingales. (English summary) **99f:42056**
Godbole, Anant P. (*with* Hitczenko, Paweł) Beyond the method of bounded differences. (English summary) **99i:60040**
Hitczenko, Paweł *see* **Godbole, Anant P., 99i:60040**
Hou, You Liang *see* **Liu, Pei De, 99e:46017**
Liu, Pei De (*with* Hou, You Liang) Geometry of complex Banach spaces. (Chinese. English and Chinese summaries) **99e:46017**
Nawrocki, M. The martingale Smirnov class. (English summary) **99c:42039**
Pavlov, I. V. Haar systems and some results on bases in a martingale space with a mixed norm. (Russian. Russian summary) **99d:42052**
Piasecki, Marek A characterization of complex $\mathcal{UMD}$ Banach spaces via tangent martingales. **99d:46006**
Schmuckenschläger, Michael Martingales, Poincaré type inequalities, and deviation inequalities. (English summary) **99h:60037**
Simon, Péter Two-parameter multipliers on Hardy spaces. **99c:42024**
Wang, Gang[2] *see* **Bañuelos, Rodrigo, 99a:60047**
Weisz, Ferenc Inequalities and duality results with respect to two-parameter strong martingales. (Russian summary) **99c:60097**
Wojciechowski, Michał On the strong type multiplier norms of rational functions in several variables. **99m:42024**

60G48 Generalizations of martingales

Choi, Changsun A norm inequality for Itô processes. **99b:60061**
Dinh Quang Lu'u Further decomposition and convergence theorems for Banach space-valued martingale-like sequences. (English summary) **99a:60049**
Errami, Mohammed (*with* Russo, Francesco) Covariation de convolution de martingales. (English and French summaries) [Covariation of martingale convolution] **99i:60096**
Gan, Shixin On the convergence of weighted sums of L_q-mixingale arrays. (English summary) **99j:60061**
Gushchin, A. A. On taking limits under the compensator sign. (English summary) **99j:60062**
Martirosyan, D. G. Phase transitions for martingale-difference Gibbs lattice models. (Russian) **99k:60120**
Michta, Mariusz Note on the selection properties of set-valued semimartingales. (English summary) **99f:60089**

Rödler, Richard A convergence theorem for a special class of stochastic processes. (English summary) **99h:60093**
Russo, Francesco *see* **Errami, Mohammed**, **99i:60096**
Schweizer, Martin A minimality property of the minimal martingale measure. (English summary) **99m:60072**

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Allouba, Hassan A non-nonstandard proof of Reimers' existence result for heat SPDEs. (English summary) **99d:60068**
Carlen, Eric Anders (*with* Krée, Paul) On martingale inequalities in non-commutative stochastic analysis. (English summary) **99g:81111**
Castaing, Charles (*with* Ezzaki, Fatima) SLLN for convex random sets and random lower semicontinuous integrands. (English summary) **99e:60081**
Chitashvili, R. (*with* Mania, M.) On functions transforming a Wiener process into a semimartingale. (English summary) **99i:60154**
Choi, Won The model of security market when the security price is a continuous semimartingale. (English summary) **99m:90026**
Ethier, S. N. An optional stopping theorem for nonadapted martingales. (English summary) **99e:60111**
Ezzaki, Fatima *see* **Castaing, Charles**, **99e:60081**
Feng, Yuhu Convergence theorems for fuzzy random variables and fuzzy martingales. (English summary)
Gasparyan, K. V. Laws of the iterated logarithm for optional martingales. (Russian. English and Russian summaries) **99g:60064**
Green, Michael Lawson Inequalities for random fields. (English summary) **99g:60039**
Guo, Zi Jun (*with* Wu, Rang Quan) A nonexplosion condition for solutions of stochastic differential equations with respect to semimartingales. (Chinese. English and Chinese summaries)
Heinkel, B. Kolmogorov's strong law of large numbers: the amart point of view. (English summary) **99f:60067**
Imkeller, Peter Enlargement of the Wiener filtration by a manifold valued random element via Malliavin's calculus. (English summary) **99h:60112**
Jacod, Jean On continuous conditional Gaussian martingales and stable convergence in law. (English summary) **99c:60081**
de Jong, Robert M. Central limit theorems for dependent heterogeneous random variables. (English summary) **99c:60046**
Kendall, Wilfrid S. From stochastic parallel transport to harmonic maps. **99h:58203**
Krée, Paul *see* **Carlen, Eric Anders**, **99g:81111**
Krupa, G. Convergence of unbounded multivalued supermartingales in the Mosco and slice topologies. (English summary) **99j:60057**
Kubilius, K. Rate of convergence in the functional central limit theorem for one-dimensional semimartingales. (English summary) **99e:60092**
Li, Shoumei (*with* Ogura, Yukio) Convergence theorems for set valued and fuzzy valued martingales and smartingales. (English summary) **99k:60024**
— (*with* Ogura, Yukio) Convergence of set-valued and fuzzy-valued martingales. (English summary) **99k:60025**
Liang, Han Ying (*with* Ren, Yao Feng) Complete convergence for B-valued L^p-mixingale sequences. (English summary) **99i:60073**
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Ogura, Yukio *see* **Li, Shoumei**, **99k:60024** *and* **99k:60025**
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Ren, Yao Feng *see* **Liang, Han Ying**, **99i:60073**
Singh, Jagbir[1] (*with* Ordoukhani, N.; Thavaneswaran, A.) A note on optimal smoothers for semimartingales. **99j:62051**
Stricker, C. (*with* Yan, Jia An) Some remarks on the optional decomposition theorem. (English summary) **99j:60058**
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Williams, Ruth J. An invariance principle for semimartingale reflecting Brownian motions in an orthant. (English summary) **99m:60129**
Wu, Rang Quan *see* **Guo, Zi Jun**
Yan, Jia An *see* **Stricker, C.**, **99j:60058**
Zhou, Xin Quan Stopping for two-parameter martingales. (Chinese. English and Chinese summaries)

60G50 Sums of independent random variables

Acharya, Sarat Kumar (*with* Tripathy, Chaitanya Kumar) Convergence of mixing transforms of random sequences. (English summary)
Gangopadhyay, Sreela (*with* Rao, B. V. Raja) Strategic purely nonatomic random walks. (English summary) **99c:60099**
Guillemeau, Michel Quelques résultats de convergence en loi vers des processus de Lévy α-stables. [Some results of convergence in law to α-stable Lévy processes] **99m:60073**
Lu, Chuan Rong *see* **Pan, Jian Min**
Mukhin, A. B. Approximation of local probabilities of sums of independent random variables. (Russian. Russian summary) **99h:60094**
Pan, Jian Min (*with* Lu, Chuan Rong) An extension of Esseen's inequality for NA variables. (Chinese. Chinese summary)
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Preda, Vasile Expressions for the density of a linear combination of N independent random variables. (English summary) **99i:60097**
Pruss, Alexander R. A two-sided estimate in the Hsu-Robbins-Erdős law of large numbers. (English summary) **99c:60100**
Rao, B. V. Raja *see* **Gangopadhyay, Sreela**, **99c:60099**
Shao, Qi-Man Recent developments on self-normalized limit theorems. (English summary) **99j:60063**
Tian, Fan Ji Contraction principles for random series in Hilbert spaces and in separable Banach spaces. (Chinese. English and Chinese summaries)
Tripathy, Chaitanya Kumar *see* **Acharya, Sarat Kumar**

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Aleškevičienė, Aldona Kazio (*with* Statulyavichus, Vitautas Antanovich) Probabilities of large deviations for the χ^2 approximation. (Russian. Lithuanian summary) **99j:60034**
Arcones, Miguel A. The law of the large numbers for U-statistics for $2m$-wise independent random variables. (English summary) **99k:60079**
Assani, I. Convergence of the p-series for stationary sequences. (English summary) **99c:60061**
Bening, V. E. (*with* Korolev, V. Yu.) Asymptotic behavior of compound nonordinary Cox processes with nonzero means. (English summary) **99m:60075**
— (*with* Korolev, V. Yu.) On approximations to generalized Cox processes. (English summary) **99m:60074**
Berkes, István (*with* Horváth, Lajos; Khoshnevisan, Davar) Logarithmic averages of stable random variables are asymptotically normal. (English summary) **99j:60023**
Borisov, I. S. (*with* Panchenko, D. A.; Skilyagina, G. I.) On minimal smoothness conditions for asymptotic expansions of moments in the CLT. (English summary) **99k:60052**
Buldygin, V. V. (*with* Kozachenko, Yu. V.) Bernstein functionals and exponential inequalities for distributions of sums of random variables. (Ukrainian) (*see* **99a:00016**)
Cartier, Pierre Fluctuations dans les suites de variables aléatoires indépendantes. [Fluctuations in sequences of independent random variables] (*see* **99f:00040**)
Čekanavičius, Vydas (*with* Vaitkus, Pranas) Large deviations for signed compound Poisson approximations. (English summary) **99b:60039**
Chasco Ugarte, Ma. Jesús (*with* Nguyen Duy Tien; Tarieladze, V. I.) Some remarks on random series in Banach spaces. (English summary) **99f:60010**
Chistyakov, G. P. *see* **Il'inskiĭ, A. I.**, **99e:60041**
Gantert, Nina Functional Erdős-Renyi laws for semiexponential random variables. (English summary) **99k:60096**
Grill, Karl Strassen-type laws for independent random walks. (English summary) **99a:60035**
Gut, Allan Stopped two-dimensional perturbed random walks and Lévy processes. (English summary) **99c:60044**
Hahn, Marjorie G. (*with* Klass, Michael J.) Optimal upper and lower bounds for the upper tails of compound Poisson processes. (English summary) **99e:60052**
Hirano, Katsuhiro Determination of the limiting coefficient for exponential functionals of random walks with positive drift. (English summary) **99g:60122**
Horváth, Lajos *see* **Berkes, István**; **et al.**, **99j:60023**
Hu, Tien Chung (*with* Szynal, Dominik; Volodin, A. I.) A note on complete convergence for arrays. (English summary) **99e:60084**
Il'inskiĭ, A. I. (*with* Chistyakov, G. P.) On the characterization of probability distributions by the absolute moments of partial sums. (Russian. Russian summary) **99e:60041**
Irle, Albrecht (*with* Lotov, Vladimir Ivanovich) A bound on the expected overshoot for some concave boundaries. (English summary) **99c:60090**
Jacod, Jean (*with* Pérez-Abreu, Víctor) On martingales which are finite sums of independent random variables with time dependent coefficients. **99e:60114**
de Jong, Robert M. Uniform laws of large numbers and stochastic Lipschitz-continuity. (English summary) **99k:60083**
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Kiesel, Rüdiger (*with* Stadtmüller, Ulrich) Erdős-Rényi-Shepp laws for dependent random variables. (English summary) **99g:60066**
Klass, Michael J. *see* **Hahn, Marjorie G.**, **99e:60052**
Komlós, János (*with* Tusnády, G.) Pointwise bounded approximation. (English summary) **99h:60062**
Korolev, V. Yu. (*with* Kruglov, V. M.) A criterion of convergence of nonrandomly centered random sums of independent identically distributed random variables. (English summary) **99e:60062**
— *see also* **Bening, V. E.**, **99m:60074** *and* **99m:60075**
Kozachenko, Yu. V. *see* **Buldygin, V. V.**, (**99a:00016**)
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Michel, Julien (*with* Piau, Didier) Large deviations, central limit theorems and L^p convergence for Young measures and stochastic homogenizations. (English summary) **99m:60046**
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Nagaev, Sergei Probabilistic inequalities for sums of independent random variables in terms of truncated pseudo-moments. (Russian. Russian summary) **99e:60079**
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Norvaiša, R. Strassen's law for weighted sup-norms. (Russian summary) **99m:60055**
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Rosenblatt, Joseph *see* **Rosalsky, Andrew**, **99e:60088**
Sakhanenko, A. I. Estimates for the accuracy of constructions on a probability space in the central limit theorem. (Russian. Russian summary) **99k:60066**

Schmuckenschläger, Michael Martingales, Poincaré type inequalities, and deviation inequalities. (English summary) **99h:60037**
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Skilyagina, G. I. *see* **Borisov, I. S.; et al., 99k:60052**
Skrypnik, A. N. Convergence of two functionals of asymptotically normal sums of independent random variables. (English summary) **99m:60037**
Sridharan, J. (*with* Nallaswamy, R.; Srinivasan, Aravind) On the rates of convergence of first passage times and their associated processes. (English summary) **99a:60073**
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Wang, Yue Bao (*with* Liu, Xuguo; Su, Chun) Equivalent conditions of complete convergence for independent weighted sums. (English summary) **99k:60092**
Wei, Chun Yan A large deviation inequality for sums of independent random variables. (Chinese. English and Chinese summaries)
Ziegler, Klaus On Hoffmann-Jørgensen-type inequalities for outer expectations with applications. (English summary) **99c:60034**
Zolotarev, Vladimir M. ★ Modern theory of summation of random variables. **99m:60002**

60G55 Point processes

Arratia, Richard On the central role of scale invariant Poisson processes on $(0, \infty)$. (English summary) **99i:60098**
Bening, V. E. (*with* Korolev, V. Yu.) Asymptotic behavior of generalized non-ordinary Cox processes. (English summary) (*see* **99f:60004**)
— (*with* Korolev, V. Yu.) Asymptotic behavior of compound nonordinary Cox processes with nonzero means. (English summary) **99m:60075**
— (*with* Korolev, V. Yu.) On approximations to generalized Cox processes. (English summary) **99m:60074**
Finkelstein, Mark (*with* Tucker, Howard G.; Veeh, Jerry Alan) Point processes without topology. (English summary) **99d:60052**
Georgii, Hans-Otto (*with* Küneth, Torsten) Stochastic comparison of point random fields. (English summary) **99c:60101**
Glynn, Peter W. (*with* Sigman, Karl) Independent sampling of a stochastic process. (English summary) **99g:60086**
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Heinrich, Lothar (*with* Liebscher, Eckhard) Strong convergence of kernel estimators for product densities of absolutely regular point processes. (English summary) **99h:60095**
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Jayashree, P. R. *see* **Sridharan, Varadachari, 99j:60064** *and* **99m:60076**
Kondrat'ev, Yu. G. (*with* da Silva, José L.; Streit, Ludwig; Us, G. F.) Analysis on Poisson and gamma spaces. (English summary) **99i:60100**
Korolev, V. Yu. *see* **Bening, V. E., 99m:60074; 99m:60075** *and* (**99f:60004**)
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Lehmann, Axel Boundary crossing probabilities of Poisson counting processes with general boundaries. (English summary) **99g:60088**
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van Lieshout, Marie-Colette N. M. (*with* Molchanov, Ilya S.) Shot noise weighted processes: a new family of spatial point processes. (English summary) **99g:60089**
Lopes Garcia, Nancy Hydrodynamical limits for epidemic models. (English summary) **99i:60101**
Lowen, Steven B. *see* **Ryu, Bo, 99a:60050**
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Novak, S. Yu. On the limiting distribution of extrema. (English summary) **99k:60123**
Röckner, Michael Stochastic analysis on configuration spaces: basic ideas and recent results. **99k:60124**
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Ryu, Bo (*with* Lowen, Steven B.) Point process models for self-similar network traffic, with applications. (English summary) **99a:60050**
Samorodnitsky, Gennady Tail behavior of some shot noise processes. (English summary) (*see* **99f:62010**)
Serfozo, Richard F. Point processes in large spaces: Poisson approximations. (English summary) **99k:60125**
Shi, Dinghua (*with* Guo, Jinli) The point process of state transitions in a regular Markov chain. (English summary) **99k:60126**
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Brown, Timothy C. (*with* Hamza, Kais; Xia, Aihua) On the variance to mean ratio for random variables from Markov chains and point processes. (English summary) **99f:60134**
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Dufour, François (*with* Kannan, D.) Discrete time nonlinear filtering with marked point process observations. (English summary) **99k:93089**
Evans, Steven N. (*with* Pitman, Jim) Stationary Markov processes related to stable Ornstein-Uhlenbeck processes and the additive coalescent. (English summary) **99j:60109**
Fabre, Jean-Pierre *see* **Bensaïd, Nadia, 99i:62082**
Foong, S. K. Functional integration and wave propagation. (English summary) **99j:58037**
Grandell, Jan ★ Mixed Poisson processes. (English summary) **99g:60087**
Granville, V. Estimation of the intensity of a Poisson point process by means of nearest neighbor distances. (English summary) **99g:62144**
Hamza, Kais *see* **Brown, Timothy C.; et al., 99f:60134**
Heinrich, Lothar Contact and chord length distribution of a stationary Voronoĭ tessellation. (English summary) **99j:60018**
Ivanoff, B. Gail (*with* Lin, Yan-Xia; Merzbach, Ely) Weak convergence of set-indexed point processes and the Poisson process. (English summary) **99e:60013**
Jayashree, P. R. *see* **Sridharan, Varadachari, 99a:92015**
Kanishauskas, V. Asymptotic estimation of the parameters of multivariate point processes. (Russian. Lithuanian summary) **99h:62109**
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Kendall, Wilfrid S. On some weighted Boolean models. (English summary) (*see* **99f:60005**)
— Perfect simulation for the area-interaction point process. (English summary) **99e:62144**
Knill, Oliver A deterministic displacement theorem for Poisson processes. (English summary) **99a:58107**
Korn, Ralf (*with* Kreer, Markus; Lenssen, Mark) Pricing of European options when the underlying stock price follows a linear birth-death process. (English summary) **99d:90019**
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Liebscher, Volkmar A Gibbs theory for states of boson systems. (English summary) **99k:82011**
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Massoulié, Laurent Large deviations ordering of point processes in some queueing networks. (English summary) **99g:60173**
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Muche, Lutz The Poisson Voronoi tessellation. III. Miles' formula. (English summary) **99f:60023**
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Pukhal'skiĭ, A. A. (*with* Whitt, Ward) Functional large deviation principles for first-passage-time processes. (English summary) **99c:60059**
Sridharan, Varadachari (*with* Jayashree, P. R.) A model of HIV population to seropositivity. (English summary) **99a:92015**
Stoyan, Dietrich Models of random sets and figures. (English summary) **99i:60025**
Weil, Wolfgang On the mean shape of particle processes. (English summary) **99b:60015**
Wendt, Heide Some models describing damage processes and resulting first passage times. (English summary) (*see* **99f:62004**)
Whitt, Ward *see* **Pukhal'skiĭ, A. A., 99c:60059**
Willie, Helmut Periodic steady state of loss systems with periodic inputs. (English summary) **99g:60178**
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Crisan, Dan (*with* Gaines, Jessica; Lyons, Terry) Convergence of a branching particle method to the solution of the Zakai equation. (English summary) **99e:60117**
Dshalalow, Jewgeni H. On intensities of modulated Cox measures. (English summary) **99g:60090**
Evans, Steven N. (*with* Perkins, Edwin A.) Collision local times, historical stochastic calculus, and competing superprocesses. (English summary) **99h:60098**
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Hill, Theodore P. (*with* Monticino, Michael) Constructions of random distributions via sequential barycenters. (English summary) **99h:60099**

Inoue, Kazuyuki Equivalence of probability laws for a class of infinitely divisible random measures. (English summary) **99c:60102**
Kamīns'kiĭ, A. B. An extended stochastic calculus for Poisson random measures. (Ukrainian. Ukrainian summary) **99f:60090**
Kao, John (*with* Çinlar, Erhan) Spectral expansion of the occupation measure for birth and death on a flow. (English summary) **99h:60100**
Lyons, Terry *see* **Crisan, Dan; et al., 99e:60117**
Monticino, Michael Constructing prior distributions with trees of exchangeable processes. (English summary) **99j:60065**
— *see also* **Hill, Theodore P., 99h:60099**
Perkins, Edwin A. *see* **Evans, Steven N., 99h:60098**
Radchenko, V. N. On the approximation of integrals with respect to a random measure by integrals with respect to a real measure. (Ukrainian. Ukrainian summary) **99f:60091**
Skorokhod, A. V. Measure-valued diffusion. (English and Ukrainian summaries) **99c:60103**
Vojak, Robert Two-point statistics of statistically self-similar cascades. (English and French summaries) **99i:60102**
Wang, Yong Jin An approach to superprocesses with generalized catalysts. (Chinese. English and Chinese summaries) **99d:60053**
— Superprocesses with a single point catalyst on the Sierpiński gasket fractal. (Chinese. Chinese summary) **99a:60051**
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Wulfsohn, Aubrey Measure diffusions and related explosion problems. (English summary) **99i:60103**
Zirbel, Craig L. (*with* Çinlar, Erhan) Mass transport by Brownian flows. (English summary) **99c:60104**

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Ben Nasr, F. On some regularity conditions of Borel measures on **R**. (English summary) **99c:28022**
Dawson, Donald A. (*with* Fleischmann, Klaus) Longtime behavior of a branching process controlled by branching catalysts. (English summary) **99c:60187**
— (*with* Fleischmann, Klaus; Leduc, Guillaume) Continuous dependence of a class of superprocesses on branching parameters and applications. (English summary) **99g:60152**
— (*with* Feng, Shui) Large deviations for the Fleming-Viot process with neutral mutation and selection. (English summary) **99h:60050**
Del Moral, Pierre Measure-valued processes and interacting particle systems. Application to nonlinear filtering problems. (English summary) **99c:60213**
Deuschel, Jean-Dominique (*with* Rosen, Jay) Occupation time large deviations for critical branching Brownian motion, super-Brownian motion and related processes. (English summary) **99g:60057**
Dhersin, Jean-Stéphane (*with* Le Gall, Jean-François) Kolmogorov's test for super-Brownian motion. (English summary) **99g:60153**
Dufour, François (*with* Kannan, D.) Discrete time nonlinear filtering with marked point process observations. (English summary) **99k:93089**
Eichelsbacher, Peter Large deviations for products of empirical probability measures in the τ-topology. (English summary) **99c:60053**
Ethier, S. N. (*with* Kurtz, Thomas G.) Coupling and ergodic theorems for Fleming-Viot processes. (English summary) **99f:60074**
Evans, Steven N. (*with* Pitman, Jim) Construction of Markovian coalescents. (English and French summaries) **99k:60184**
Fan, Ai Hua Gibbs measures and some related topics. (English summary) **99c:28016**
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Finkelstein, Mark (*with* Tucker, Howard G.; Veeh, Jerry Alan) Point processes without topology. (English summary) **99d:60052**
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— (*with* Üstünel, Ali Suleyman) Fractional Brownian motion: theory and applications. (English and French summaries) **99m:60082**
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— Extended Itô integrals and the reflection problem. (English summary) **99m:60083**
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60H07 Stochastic calculus of variations and the Malliavin calculus

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Hu, Yao Zhong (*with* Nualart, David) Continuity of some anticipating integral processes. (English summary) **99i:60111**
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Bouton, Catherine (*with* Pagès, Gilles) About the multidimensional competitive learning vector quantization algorithm with constant gain. (English summary) **99a:60075**
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Gharib, Mohamed A uniform estimate for the convergence rate in the central limit theorem of the weighted sum of random vectors forming a homogeneous Markov chain. (English summary) **99i:60050**

Gordienko, Evgueni I. (*with* Minjárez-Sosa, J. Adolfo) Adaptive control for discrete-time Markov processes with unbounded costs: discounted criterion. (English summary) **99g:93090**

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Hobert, James P. (*with* Casella, George) Functional compatibility, Markov chains, and Gibbs sampling with improper posteriors. (English summary) **99c:62064**

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Stadje, Wolfgang Level-crossing properties of the risk process. (English summary) **99j:60111**
Sun, Wei[3] Weak convergence of Dirichlet processes. (English summary) **99d:60083**
Turbin, A. F. *see* **Kolesnik, A. D., 99e:60159**
Wang, Feng Yu *see* **Chen, Mu Fa**
Watanabe, Toshiro Sato's conjecture on recurrence conditions for multidimensional processes of Ornstein-Uhlenbeck type. **99a:60076**
Xiao, Yimin *see* **Liu, Luqin, 99k:60187**
Xiong, Shuang Ping The polarity and Hausdorff dimension of a class of self-similar Markov processes. (Chinese. English and Chinese summaries) **99j:60112**
Zirbel, Craig L. Mean occupation times of continuous one-dimensional Markov processes. (English summary) **99e:60161**
Zou, Jie Zhong *see* **Hou, Zhen Ting; et al.**

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Aldous, David J. Stochastic coalescence. (English summary) **99i:60171**
Anderson, James Milne (*with* Pitt, Loren D.) Large time asymptotics for Brownian hitting densities of transient concave curves. (English summary) **99b:60133**

Asmussen, Søren (*with* Klüppelberg, Claudia; Sigman, Karl) Sampling at subexponential times, with queueing applications. (English summary) **99k:60224**
Cattiaux, P. (*with* Léonard, Christian) Minimization of the Kullback information for some Markov processes. (English summary) **99b:60038**
Dalang, Robert C. (*with* Hou, Qiang) On Markov properties of Lévy waves in two dimensions. (English summary) **99e:60136**
Diósi, Lajos (*with* Gisin, Nicolas; Strunz, Walter T.) Non-Markovian quantum state diffusion. (English summary) **99h:81103**
Echerbault, Mireille Sur le modèle d'Heisenberg. [On the Heisenberg model] **99k:82004**
Eisenbaum, Nathalie Une version sans conditionnement du théorème d'isomorphisms de Dynkin. (English summary) [An unconditioned version of Dynkin's isomorphism theorem] **99e:60171**
— Théorèmes limites pour les temps locaux d'un processus stable symétrique. (French summary) [Limit theorems for the local times of a symmetric stable process] **99f:60138**
Fritz, József (*with* Rœlly, S.; Zessin, H.) Stationary states of interacting Brownian motions. (English summary) **99h:60164**
Funaki, Tadahisa (*with* Woyczyński, Wojbor A.) Interacting particle approximation for fractal Burgers equation. (English summary) **99g:60185**
Gisin, Nicolas *see* **Diósi, Lajos; et al., 99h:81103**
Gross, Leonard (*with* Rothaus, Oscar S.) Herbst inequalities for supercontractive semigroups. **99i:47074**
Guo, Jun Yi Local extinction of super-Brownian motion on Sierpinski gasket. (English summary) **99b:60139**
Häggström, Olle Dynamical percolation: early results and open problems. (English summary) **99g:60188**
Hattori, Tetsuya[1] (*with* Watanabe, Hiroshi[2]) Anisotropic random walks and asymptotically one-dimensional diffusion on *abc*-gaskets. (English summary) **99d:60089**
Hou, Qiang *see* **Dalang, Robert C., 99e:60136**
Jefferies, Brian The Feynman-Kac formula in the operator setting. (English summary) **99g:47094**
Jeon, Intae Existence of gelling solutions for coagulation-fragmentation equations. (English summary) **99g:82056**
Kannan, D. (*with* Zhang, Hong) Functional limit theorems for degenerate Lévy processes. (English summary) **99c:60072**
Kartashov, N. V. Computation and estimation of the exponential ergodicity exponent for general Markov processes and chains with recurrent kernels. (Ukrainian. Ukrainian summary) **99e:60199**
Kharlamov, B. P. Uniform distribution surfaces for the first exit points of a multidimensional diffusion process. (English summary) **99m:60120**
Klüppelberg, Claudia *see* **Asmussen, Søren; et al., 99k:60224**
Kojo, Katsuya On the determinism of the distributions of multiple Markov non-Gaussian symmetric stable processes. (English summary) **99g:60032**
Kurtz, Thomas G. (*with* Stockbridge, Richard H.) Existence of Markov controls and characterization of optimal Markov controls. (English summary) **99b:93051**
Lantuéjoul, C. Conditional simulation of object-based models. (English summary) **99g:60022**
Le Gall, Jean-François (*with* Le Jan, Yves) Branching processes in Lévy processes: the exploration process. (English summary) **99d:60096**
Le Jan, Yves *see* **Le Gall, Jean-François, 99d:60096**
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Liu, Xiao Bing *see* **Shi, Xianghua; et al., 99k:60181**
Lunt, John (*with* Lyons, Terry; Zhang, Tu Sheng) Integrability of functionals of Dirichlet processes, probabilistic representations of semigroups, and estimates of heat kernels. (English summary) **99g:31012**
Lyons, Terry *see* **Lunt, John; et al., 99g:31012**
Melicherčík, Igor Asymptotic behaviour of some Markov operators appearing in mathematical models of biology. (English summary) **99h:47015**
Mīshura, Yu. S. Some properties of local times for Markov random fields. (Ukrainian. Ukrainian summary) **99e:60119**
Osada, Hirofumi An invariance principle for Markov processes and Brownian particles with singular interaction. (English and French summaries) **99c:60073**
Parthasarathy, Kalyanapuram Rangachari On some Markov processes arising from the Eyre-Hudson super Lie algebra representations. (English summary) **99g:81115**
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Prabhu, N. U. ★ Stochastic storage processes. (English summary) **99c:60208**
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Schilling, René L. Feller processes generated by pseudo-differential operators: on the Hausdorff dimension of their sample paths. (English summary) **99c:60082**
Shi, Xianghua (*with* Liu, Xiao Bing; Zhou, Ming) Exact, general and asymptotic solutions of generalized master equation and continuous-time random walks. (English and Chinese summaries) **99k:60181**
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Sigman, Karl *see* **Asmussen, Søren; et al., 99k:60224**
Skorokhod, A. V. Measure-valued diffusion. (English and Ukrainian summaries) **99c:60103**
Smolyanov, Oleg G. Change of variable formulas for Gaussian integrals over spaces of paths in compact Riemannian manifolds. (English summary) (*see* **99a:00013**)
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Stramer, O. (*with* Tweedie, R. L.) Existence and stability of weak solutions to stochastic differential equations with non-smooth coefficients. (English summary) **99b:60096**
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Svishchuk, A. V. ★ Random evolutions and their applications. (English summary) **99i:60178**
Taira, Kazuaki Feller semigroups with boundary conditions. (English summary) **99m:47051**
Takeda, Masayoshi Dirichlet forms and symmetric Markov processes (recent topics). (Japanese) **99c:60163**
Tóth, Bálint (*with* Werner, Wendelin) The true self-repelling motion. (English summary) **99i:60092**
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Voĭna, A. A. (*with* Sidorov, M. V.-S.) Estimation of conditional transition probabilities for partially observable Markov chains. (Ukrainian. Ukrainian summary) **99g:60112**
Watanabe, Hiroshi[2] *see* **Hattori, Tetsuya[1], 99d:60089**
Werner, Wendelin *see* **Tóth, Bálint, 99i:60092**
Woyczyński, Wojbor A. *see* **Funaki, Tadahisa, 99g:60185**
Yamamuro, Kouji On transient Markov processes of Ornstein-Uhlenbeck type. (English summary) **99h:60146**
Yang, Chun Peng Super-spacetime harmonic functions and a class of nonlinear parabolic equations. (Chinese. English and Chinese summaries) **99k:35089**
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Zhang, Hong *see* **Kannan, D., 99c:60072**
Zhang, Tu Sheng *see* **Lunt, John; et al., 99g:31012**
Zhou, Ming *see* **Shi, Xianghua; et al., 99k:60181**

60J27 Markov chains with continuous parameter

Aldous, David J. Emergence of the giant component in special Marcus-Lushnikov processes. (English summary) **99g:60128**
Athreya, Krishna B. (*with* Kang, Hye-Jeong) Some limit theorems for positive recurrent branching Markov chains. I, II. (English summary) **99k:60188**
Boucherie, Richard J. (*with* van Doorn, Erik A.) Uniformization for λ-positive Markov chains. (English summary) **99d:60084**
Brown, Timothy C. (*with* Hamza, Kais; Xia, Aihua) On the variance to mean ratio for random variables from Markov chains and point processes. (English summary) **99f:60134**
Cao, Xi-Ren (*with* Chen, Han-Fu) Perturbation realization, potentials, and sensitivity analysis of Markov processes. (English summary) **99h:60143**
Chen, Han-Fu *see* **Cao, Xi-Ren, 99h:60143**
Chiang, Tzuu-Shuh (*with* Chow, Yunshyong) On the problem of exit from cycles for simulated annealing processes—a backward equation approach. (English summary) **99g:60129**
Chow, Yunshyong *see* **Chiang, Tzuu-Shuh, 99g:60129**
Dai, Yonglong *see* **Renshaw, Eric, 99e:60163**
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Fill, James Allen (*with* Holst, Lars) On the distribution of search cost for the move-to-front rule. (English summary) **99b:60118**
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Guihenneuc-Jouyaux, Chantal (*with* Robert, Christian P.) Valid discretization via renewal theory. (*see* **99m:65012**)
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Keilson, Julian Covariance and relaxation time in finite Markov chains. (English summary) **99k:60189**
Larget, Bret A canonical representation for aggregated Markov processes. (English summary) **99k:60190**
Li, Xin[3] (*with* Yin, Gang George; Yin, Kewen; Zhang, Qing[1]) A numerical study of singularly perturbed Markovian systems. (English summary) (*see* **99f:62008**)
Miclo, Laurent Une étude des algorithmes de recuit simulé sous-admissibles. (English and French summaries) [A study of subadmissible simulated annealing algorithms] **99c:60156**
— Sur les temps d'occupations des processus de Markov finis inhomogènes à basse température. (English and French summaries) [Occupation times of low-temperature nonhomogeneous finite Markov processes] **99e:60162**
Renshaw, Eric (*with* Dai, Yonglong) Regularity and reversibility results for birth-death-migration processes. (English summary) **99e:60163**
Robert, Christian P. *see* **Guihenneuc-Jouyaux, Chantal, (99m:65012)**
Saloff-Coste, Laurent Lectures on finite Markov chains. **99b:60119**
de Souza e Silva, Edmundo (*with* Gail, H. Richard) An algorithm to calculate transient distributions of cumulative rate and impulse based reward. (English summary) **99m:60108**
Xi, Fu Bao A note on the jump numbers of Q-processes. (Chinese. English and Chinese summaries)
Xia, Aihua *see* **Brown, Timothy C.; et al., 99f:60134**
Yang, Xiang Qun Existence and uniqueness theorems for superfinite Markov chains. (Chinese. English and Chinese summaries)
Yin, Gang George *see* **Li, Xin[3]; et al., (99f:62008)**
Yin, Kewen *see* **Li, Xin[3]; et al., (99f:62008)**
Zhang, Qing[1] *see* **Li, Xin[3]; et al., (99f:62008)**
Zhang, Yu Hui[2] Regularity of linear combinations of Q-matrices. (Chinese. English and Chinese summaries)

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Aldous, David J. Tree-valued Markov chains and Poisson-Galton-Watson distributions. (English summary) **99k:60212**
Andersson, Håkan (*with* Djehiche, Boualem) Limit theorems for the total size of a spatial epidemic. (English summary) **99b:92054**
— (*with* Djehiche, Boualem) A threshold limit theorem for the stochastic logistic epidemic. (English summary) **99m:92046**
Baldi, Paolo (*with* Piccioni, Mauro) A representation formula for the large deviation rate function for the empirical law of a continuous time Markov chain. (English summary) **99k:60070**
Caubet, Jean-Pierre Matrix nonstationary semigroups: semigroup property and relativity. (English summary) (*see* **98c:00013**)
Chen, Mu Fa Optimal couplings and application to Riemannian geometry. (English summary) **99i:60148**
— Trilogy of couplings and general formulas for lower bound of spectral gap. (English summary) **99h:60130**

— Estimation of the exponential convergence rate in the total variation by spectral gap. (Chinese. English and Chinese summaries) **99c:60154**
Dayar, Tuğrul State space orderings for Gauss-Seidel in Markov chains revisited. (English summary) **99b:65185**
Djehiche, Boualem *see* **Andersson, Håkan**, **99b:92054** *and* **99m:92046**
Freedman, D. A. De Finetti's theorem in continuous time. (English summary) **99d:60048**
Gani, Joseph Mark Elementary methods for failure due to a sequence of Markovian events. (English summary) **99e:90109**
Ge, Yubo Relative extreme values and extremum-times of jump process: upward type. (English summary) **99e:60189**
Green, Peter J. *see* **Murdoch, D. J.**
Guihenneuc-Jouyaux, Chantal (*with* Robert, Christian P.) Discretization of continuous Markov chains and Markov chain Monte Carlo convergence assessment. (English summary) **99f:60124**
Guo, Jinli *see* **Shi, Dinghua**, **99k:60126**
Lenin, R. B. *see* **Parthasarathy, P. R.**, **99g:60155**
Mathieu, Pierre[2] (*with* Picco, Pierre) Metastability and convergence to equilibrium for the random field Curie-Weiss model. (English summary) **99d:82057**
Möhle, M. A convergence theorem for Markov chains arising in population genetics and the coalescent with selfing. (English summary) **99f:92010a**
— Coalescent results for two-sex population models. (English summary) **99f:92010b**
Murdoch, D. J. (*with* Green, Peter J.) Exact sampling from a continuous state space. (English summary)
Norris, James R. ★ Markov chains. (English summary) **99c:60144**
Parthasarathy, P. R. (*with* Lenin, R. B.) On the numerical solution of transient probabilities of quadratic birth and death processes. (English summary) **99g:60155**
Philippe, Anne (*with* Robert, Christian P.) Linking discrete and continuous chains. (*see* **99m:65012**)
Piccioni, Mauro *see* **Baldi, Paolo**, **99k:60070**
Picco, Pierre *see* **Mathieu, Pierre[2]**, **99d:82057**
Richardson, Sylvia *see* **Robert, Christian P.**, (**99m:65012**)
Robert, Christian P. (*with* Richardson, Sylvia) Markov chain Monte Carlo methods. (*see* **99m:65012**)
— *see also* **Guihenneuc-Jouyaux, Chantal**, **99f:60124** *and* **Philippe, Anne**, (**99m:65012**)
Shi, Dinghua (*with* Guo, Jinli) The point process of state transitions in a regular Markov chain. (English summary) **99k:60126**
Spreij, Peter A representation result for finite Markov chains. (English summary) **99c:60096**

60J30 Processes with independent increments

Bertoin, Jean Cauchy's principal value of local times of Lévy processes with no negative jumps via continuous branching processes. (English summary) **99b:60120**
— Darling-Erdős theorems for normalized sums of i.i.d. variables close to a stable law. (English summary) **99k:60191**
Carmona, Philippe (*with* Petit, Frédérique; Yor, Marc) On the distribution and asymptotic results for exponential functionals of Lévy processes. (English summary) **99h:60144**
Chaumont, L. Excursion normalisée, méandre et pont pour les processus de Lévy stables. (French summary) [Normalized excursion, meander and bridge for stable Lévy processes] **99a:60077**
Evans, Steven N. (*with* Peres, Yuval) Eventual intersection for sequences of Lévy processes. (English summary) **99g:60130**
Fourati, S. Points de croissance des processus de Lévy et théorie générale des processus. (English summary) [Increase times of Lévy processes and general theory of processes] **99e:60164**
Hawkes, John Exact capacity results for stable processes. (English summary) **99h:60145**
Hiraba, Seiji Asymptotic behavior of hitting rates for absorbing stable motions in a half space. **99k:60192**
Khodzhibaev, V. R. Asymptotic representations for characteristics of exit from an interval for stochastic processes with independent increments. (English summary) **99j:60113**
Khoshnevisan, Davar (*with* Lewis, Thomas M.) A law of the iterated logarithm for stable processes in random scenery. (English summary) **99g:60131**
Lewis, Thomas M. *see* **Khoshnevisan, Davar**, **99g:60131**
Marchal, Philippe Distribution of the occupation time for a Lévy process at passage times at 0. (English summary) **99k:60193**
Marsalle, Laurence Hausdorff measures and capacities for increase times of stable processes. (English summary) **99m:60109**
Peres, Yuval *see* **Evans, Steven N.**, **99g:60130**
Petit, Frédérique *see* **Carmona, Philippe; et al.**, **99h:60144**
Piterbarg, Vladimir V. Expansions and contractions of isotropic stochastic flows of homeomorphisms. (English summary) **99e:60165**
Sato, Ken-iti Criteria of weak and strong transience for Lévy processes. **99c:60157**
— Time evolution of Lévy processes. (English summary) **99f:60135**
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Carmona, Philippe The mean velocity of a Brownian motion in a random Lévy potential. (English summary) **99b:60126**
Dobrushin, R. L. (*with* Pecherskiĭ, E. A.) Large deviations for random processes with independent increments on infinite intervals. **99m:60042**
Eisenbaum, Nathalie Théorèmes limites pour les temps locaux d'un processus stable symétrique. (French summary) [Limit theorems for the local times of a symmetric stable process] **99f:60138**
Fang, Shi Zu Two-parameter finite streams of random events. (Chinese. English and Chinese summaries) **99d:60054**
Furuoya, Tasuku (*with* Shiga, Tokuzo) Sample Lyapunov exponent for a class of linear Markovian systems over $\mathbf{Z}^d$. **99g:60099**
Gjessing, Håkon K. (*with* Paulsen, Jostein) Present value distributions with applications to ruin theory and stochastic equations. (English summary) **99b:60068**
Goldie, Charles M. (*with* Klüppelberg, Claudia) Subexponential distributions. (English summary) (*see* **99f:62010**)
Gong, Guang Lu *see* **Liu, Yong[1]**, **99f:60014**
Hu, Xiao Yu Measure properties of random fractals. (Chinese. English and Chinese summaries) **99e:28012**
Ickstadt, Katja *see* **Wolpert, Robert L.**, (**99a:62004**)
Jain, Naresh C. Large time asymptotics of Lévy processes and random walks. (English summary) **99k:60075**
Klüppelberg, Claudia *see* **Goldie, Charles M.**, (**99f:62010**)
Kulczycki, Tadeusz Intrinsic ultracontractivity for symmetric stable processes. (English summary) **99j:60115**
Kunita, Hiroshi Asymptotic self-similarity and short time asymptotics of stochastic flows. (English summary) **99c:60118**
— Infinitesimal generators of nonhomogeneous convolution semigroups on Lie groups. **99e:60027**
Le Gall, Jean-François (*with* Le Jan, Yves) Branching processes in Lévy processes: the exploration process. (English summary) **99d:60096**
— (*with* Le Jan, Yves) Branching processes in Lévy processes: Laplace functionals of snakes and superprocesses. (English summary) **99m:60133**
Le Jan, Yves *see* **Le Gall, Jean-François**, **99d:60096** *and* **99m:60133**
Liu, Yong[1] (*with* Gong, Guang Lu) Approximation of homogeneous Lévy processes by compound Poisson processes on complete separable metric groups. (Chinese. English and Chinese summaries) **99f:60014**
Molchan, G. M. Anomalies in multifractral formalism for local time of Brownian motion. (English summary) **99g:60134**
Nishioka, Kunio The first hitting time and place of a half-line by a biharmonic pseudo process. **99f:60080**
Paulsen, Jostein *see* **Gjessing, Håkon K.**, **99b:60068**
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de la Peña, Víctor H. On Wald's equation and first exit times for randomly stopped processes with independent increments. (English summary) **99k:60043**
Sato, Ken-iti (*with* Yamamuro, Kouji) On selfsimilar and semi-selfsimilar processes with independent increments. (English summary) **99h:60086**
Schilling, René L. On Feller processes with sample paths in Besov spaces. (English summary) **99b:60117**
Schoutens, Wim (*with* Teugels, Jozef L.) Lévy processes, polynomials and martingales. (English summary) **99k:60118**
Shieh, Narn-Rueih (*with* Taylor, S. James) Logarithmic multifractal spectrum of stable occupation measure. (English summary) **99g:60078**
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Wolpert, Robert L. (*with* Ickstadt, Katja) Simulation of Lévy random fields. (English summary) (*see* **99a:62004**)
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Ying, Jiangang Lévy processes and homogeneous killing transformation. (English summary) **99c:60164**
Zanzotto, P. A. On solutions of one-dimensional stochastic differential equations driven by stable Lévy motion. (English summary) **99f:60114**

60J35 Transition functions, generators and resolvents [see also 47D03, 47D07]

Bakry, Dominique On Sobolev and logarithmic Sobolev inequalities for Markov semigroups. (English summary) **99m:60110**
Barlow, Martin T. (*with* Bass, Richard F.; Burdzy, Krzysztof) Positivity of Brownian transition densities. (English summary) **99e:60166**
Baryshnikov, Yulii Maratovich Wiener soccer and its generalization. (English summary) **99c:60158**
Bass, Richard F. *see* **Barlow, Martin T.; et al.**, **99e:60166**
Beznea, Lucian (*with* Stoica, Lucretiu) From diffusions to processes with jumps. (English summary) **99f:60136**
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He, Sheng Wu (*with* Wang, Jia Gang) The hypercontractivity of Ornstein-Uhlenbeck semigroups with drift, revisited. **99d:60085**
Jacob, Niels Characteristic functions and symbols in the theory of Feller processes. (English summary) **99b:60121**
Kikuchi, Koji (*with* Negoro, Akira) On Markov process generated by pseudodifferential operator of variable order. **99a:60078**
Lewin, Marica Local time for stable discontinuous superprocesses in one dimension. (English summary) **99m:60111**
March, Peter Resolvent estimates for Fleming-Viot operators with Brownian drift. Supplement to: "Resolvent estimates for Fleming-Viot operators and uniqueness of solutions to related martingale problems" [J. Funct. Anal. **132** (1995), no. 2, 417–472; MR 97a:60105] by D. A. Dawson and March. (English summary) **99m:60112**
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Roberts, Gareth O. (*with* Rosenthal, Jeffrey S.) Geometric ergodicity and hybrid Markov chains. (English summary) **99b:60122**
Röckner, Michael (*with* Zhang, Tu Sheng) On the strong Feller property of the semigroups generated by non-divergence operators with L^p-drift. (English summary) **99i:60144**
Rosenthal, Jeffrey S. *see* **Roberts, Gareth O.**, **99b:60122**
Schilling, René L. Conservativeness of semigroups generated by pseudo-differential operators. (English summary) **99g:60132**
Šikić, Hrvoje Transition probabilities of some measure-valued processes. (English summary) **99f:60137**
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Taira, Kazuaki Analytic Feller semigroups. **99e:60167**
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Zhang, Tu Sheng *see* **Röckner, Michael**, **99i:60144**

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Conlon, Joseph G. (*with* Olsen, Peder A.) Estimates on the solution of an elliptic equation related to Brownian motion with drift. II. **99e:35009**
Coulhon, Thierry (*with* Duong, Xuan Thinh) Riesz transforms for $1 \le p \le 2$. (English summary) **99e:58174**
Duong, Xuan Thinh *see* **Coulhon, Thierry, 99e:58174**
Elworthy, K. D. (*with* Li, Xue-Mei[2]) Differentiation of heat semigroups and applications. **99h:60117**
Fagnola, Franco (*with* Monte, Roberto) Quantum extensions of semigroups generated by Bessel processes. (Russian. Russian summary) **99f:81108**
— Extending flows of classical Markov processes to quantum flows in Fock space. (English summary) **99g:81112**
Fitzsimmons, P. J. Markov processes with identical bridges. (English summary) **99h:60142**
Hino, Masanori Existence of invariant measures for diffusion processes on a Wiener space. **99j:60118**
Hoh, Walter Un calcul symbolique pour des opérateurs pseudo-différentiels engendrant des semi-groupes de Feller. (English and French summaries) [A symbolic calculus for pseudodifferential operators generating Feller semigroups] **99b:47076**
Jost, Jürgen (*with* Kendall, Wilfrid S.; Mosco, Umberto; Röckner, Michael; Sturm, Karl-Theodor) ★ New directions in Dirichlet forms. **99e:31002**
Kannan, D. (*with* Zhang, Hong) Functional limit theorems for degenerate Lévy processes. (English summary) **99c:60072**
Kendall, Wilfrid S. *see* **Jost, Jürgen; et al., 99e:31002**
Kim, Dae Hong (*with* Kim, Jai Heui; Yun, Yong Sik) Non-symmetric Dirichlet forms for oblique reflecting diffusions. (English summary) **99b:60129**
Kim, Jai Heui *see* **Kim, Dae Hong; et al., 99b:60129**
Kurtz, Thomas G. Martingale problems for conditional distributions of Markov processes. (English summary) **99k:60186**
Li, Xue-Mei[2] *see* **Elworthy, K. D., 99h:60117**
Menárguez, M. Trinidad (*with* Pérez, Sonsoles; Soria, Fernando) Pointwise and norm estimates for operators associated with the Ornstein-Uhlenbeck semigroup. (English and French summaries) **99f:35070**
Miclo, Laurent Une variante de l'inégalité de Cheeger pour les chaînes de Markov finies. (French summary) [A variant of the Cheeger inequality for finite Markov chains] **99e:60152**
Monte, Roberto *see* **Fagnola, Franco, 99f:81108**
Mosco, Umberto *see* **Jost, Jürgen; et al., 99e:31002**
Nowak, Andrzej S. A generalization of Ueno's inequality for n-step transition probabilities. (English summary) **99g:60111**
Olsen, Peder A. *see* **Conlon, Joseph G., 99e:35009**
Oshima, Yōichi On the recurrence of some time inhomogeneous Markov processes. (English summary) **99a:60079**
Pérez, Sonsoles *see* **Menárguez, M. Trinidad; et al., 99f:35070**
Pichór, Katarzyna (*with* Rudnicki, Ryszard) Stability of Markov semigroups and applications to parabolic systems. (English summary) **99a:47066**
Röckner, Michael *see* **Jost, Jürgen; et al., 99e:31002**
Rudnicki, Ryszard *see* **Pichór, Katarzyna, 99a:47066**
Schilling, René L. Subordination in the sense of Bochner and a related functional calculus. (English summary) **99e:47042**
Shigekawa, Ichiro The Meyer inequality for the Ornstein-Uhlenbeck operator in L^1 and probabilistic proof of Stein's L^p multiplier theorem. (English summary) **99d:60059**
Soria, Fernando *see* **Menárguez, M. Trinidad; et al., 99f:35070**
Sturm, Karl-Theodor *see* **Jost, Jürgen; et al., 99e:31002**
Thalmaier, Anton (*with* Wang, Feng Yu) Gradient estimates for harmonic functions on regular domains in Riemannian manifolds. (English summary) **99g:58132**
Wang, Feng Yu *see* **Thalmaier, Anton, 99g:58132**
Yun, Yong Sik *see* **Kim, Dae Hong; et al., 99b:60129**
Zhang, Hong *see* **Kannan, D., 99c:60072**
Zirbel, Craig L. Mean occupation times of continuous one-dimensional Markov processes. (English summary) **99e:60161**

60J40 Right processes

Eisenbaum, Nathalie (*with* Kaspi, Haya) On the Markov property of local time for Markov processes on graphs. **99c:60159**
Kaspi, Haya *see* **Eisenbaum, Nathalie, 99c:60159**
Ma, Zhi-Ming (*with* Röckner, Michael; Zhang, Tu Sheng) Approximation of arbitrary Dirichlet processes by Markov chains. (English and French summaries) **99c:60160**
Röckner, Michael *see* **Ma, Zhi-Ming; et al., 99c:60160**
Yamamuro, Kouji On transient Markov processes of Ornstein-Uhlenbeck type. (English summary) **99h:60146**
Ying, Jiangang The Feynman-Kac formula for symmetric Markov processes. (English summary) **99c:60161**
— Revuz measures and related formulas on energy functional and capacity. (English summary) **99k:60194**
Zhang, Tu Sheng *see* **Ma, Zhi-Ming; et al., 99c:60160**

Items with secondary classifications in 60J40

Alanyali, Murat (*with* Hajek, Bruce) On large deviations of Markov processes with discontinuous statistics. (English summary) **99g:60053**
Beznea, Lucian (*with* Boboc, Nicu) Balayages on excessive measures, their representation and the quasi-Lindelöf property. (English summary) **99b:31010**
Boboc, Nicu *see* **Beznea, Lucian, 99b:31010**
Dawson, Donald A. (*with* Fleischmann, Klaus; Leduc, Guillaume) Continuous dependence of a class of superprocesses on branching parameters and applications. (English summary) **99g:60152**
Fitzsimmons, P. J. The quasi-sure ratio ergodic theorem. (English and French summaries) **99h:60147**
Fleischmann, Klaus *see* **Dawson, Donald A.; et al., 99g:60152**
Hajek, Bruce *see* **Alanyali, Murat, 99g:60053**
Hino, Masanori Convergence of non-symmetric forms. **99k:31011**
Leduc, Guillaume *see* **Dawson, Donald A.; et al., 99g:60152**
Stannat, Wilhelm Dirichlet forms and Markov processes: a generalized framework including both elliptic and parabolic cases. (English summary) **99c:60162**
Yang, Xiang Qun Existence and uniqueness theorems for superfinite Markov chains. (Chinese. English and Chinese summaries)

60J45 Probabilistic potential theory [see also 31Cxx, 31D05]

Ben Salah, M. (*with* Yahiaoui, M. S.) Perturbations et lois de sorties. [Perturbations and exit laws]
Burdzy, Krzysztof (*with* Salisbury, Thomas S.) On minimal parabolic functions and time-homogeneous parabolic h-transforms. (English summary) **99m:60113**
Chen, Zhen-Qing (*with* Durrett, Richard; Ma, Gang) Holomorphic diffusions and boundary behavior of harmonic functions. (English summary) **99k:60195**
Durrett, Richard *see* **Chen, Zhen-Qing; et al., 99k:60195**
Fitzsimmons, P. J. The quasi-sure ratio ergodic theorem. (English and French summaries) **99h:60147**
Guglielmi, Alessandra Results on the distributions of means of a Dirichlet process. (Italian)
Ichihara, Kanji A Liouville property for difference operators. **99j:60114**
Jiang, Zhao Lin *see* **Yin, Chuan Cun, 99e:60168**
Kulczycki, Tadeusz Intrinsic ultracontractivity for symmetric stable processes. (English summary) **99j:60115**
Lang, Reinhard On some connections between potential theory and excursions of reflecting Brownian motion. (English summary) **99m:60114**
Ma, Gang *see* **Chen, Zhen-Qing; et al., 99k:60195**
Ôkura, Hiroyuki A new approach to the skew product of symmetric Markov processes. (English summary) **99h:60148**
Oshima, Yōichi On the recurrence of some time inhomogeneous Markov processes. (English summary) **99a:60079**
Salisbury, Thomas S. *see* **Burdzy, Krzysztof, 99m:60113**
Simon, Thomas D. Subordination au sens large et équation de quotient. (English and French summaries) [Subordination in the wide sense and quotient equation] **99j:60116**
Stannat, Wilhelm Dirichlet forms and Markov processes: a generalized framework including both elliptic and parabolic cases. (English summary) **99c:60162**
Sznitman, Alain-Sol Capacity and principal eigenvalues: the method of enlargement of obstacles revisited. (English summary) **99a:60080**
Takeda, Masayoshi Dirichlet forms and symmetric Markov processes (recent topics). (Japanese) **99c:60163**
Varopoulos, Nicholas T. Potential theory in conical domains. **99i:60145**
Yahiaoui, M. S. *see* **Ben Salah, M.**
Yin, Chuan Cun (*with* Jiang, Zhao Lin) Equivalent conditions for the finiteness of gauge. (English summary) **99e:60168**
Ying, Jiangang Lévy processes and homogeneous killing transformation. (English summary) **99c:60164**
— Strong subordination of symmetric Dirichlet forms. (English summary) **99c:60165**
— Remarks on h-transform and drift. (English summary) **99k:60196**
Zahid, Mehdi Fonctionnelle additive et ellipticité. [Additive functional and ellipticity] **99c:60166**

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Aida, Shigeki On the irreducibility of certain Dirichlet forms on loop spaces over compact homogeneous spaces. **99k:58193**
Babillot, Martine Asymptotics of Green functions on a class of solvable Lie groups. (English summary) **99g:60133**
Bendikov, A. D. On the Lévy measures for symmetric stable semigroups on the torus $\mathbf{T}^\infty$ (English summary) **99f:31011**
Beznea, Lucian (*with* Boboc, Nicu) Balayages on excessive measures, their representation and the quasi-Lindelöf property. (English summary) **99b:31010**
— (*with* Boboc, Nicu) Noyaux fortement surmédians et mesures de Revuz. (English and French summaries) [Strongly supermedian kernels and Revuz measures] **99g:31011**
Boboc, Nicu *see* **Beznea, Lucian, 99b:31010** *and* **99g:31011**
Cao, Xi-Ren (*with* Chen, Han-Fu) Perturbation realization, potentials, and sensitivity analysis of Markov processes. (English summary) **99h:60143**
Carmona, S. C. On large deviations for a multidimensional random process with slow and fast diffusities. (English summary) **99m:60040**
Chen, Han-Fu *see* **Cao, Xi-Ren, 99h:60143**
Chen, Zhen Long Properties of the polar sets of Brownian sheets. (Chinese. English and Chinese summaries) **99k:60102**
Dellacherie, C. (*with* Taïbi, D.; Martínez, Servet A.; San Martín, Jaime) Noyaux potentiels associés à une filtration. (English and French summaries) [Potential kernels associated with a filtration] **99k:60114**
Demuth, Michael (*with* McGillivray, Ivor; Noll, A.) Capacity and spectral theory. **99f:31007**
Dong, Zhao (*with* Ma, Zhi-Ming; Sun, Wei[3]) A note on Beurling-Deny formulae in infinite-dimensional spaces. (English summary) **99d:31004**
Dynkin, E. B. (*with* Kuznetsov, Sergei E.) Natural linear additive functionals of superprocesses. (English summary) **99c:60168a**
— (*with* Kuznetsov, Sergei E.) Fine topology and fine trace on the boundary associated with a class of semilinear differential equations. (English summary) **99f:35046**
— (*with* Kuznetsov, Sergei E.) Trace on the boundary for solutions of nonlinear differential equations. (English summary) **99a:60084**
Evans, Steven N. (*with* Peres, Yuval) Eventual intersection for sequences of Lévy processes. (English summary) **99g:60130**
Häggström, Olle (*with* Mossel, Elchanan) Nearest-neighbor walks with low predictability profile and percolation in $2 + \varepsilon$ dimensions. (English summary) **99h:60165**
Hawkes, John Exact capacity results for stable processes. (English summary) **99h:60145**
Jaworski, Wojciech Random walks on almost connected locally compact groups: boundary and convergence. (English summary) **99i:60014**

Kaimanovich, Vadim A. (*with* Masur, Howard) The Poisson boundary of Teichmüller space. (English summary) **99h:30044**
Kenyon, Richard Tilings and discrete Dirichlet problems. (English summary) **99m:52026**
Kuznetsov, Sergei E. *see* **Dynkin, E. B., 99a:60084; 99c:60168a** *and* **99f:35046**
Lai, Xue Jian *see* **Liu, Jia Kun, 99b:31003**
Liang, Zongxia Two parameter smooth martingales on the Wiener space. (English summary) **99b:60059**
Liu, Jia Kun (*with* Lai, Xue Jian) The converse of the mean value theorem for harmonic functions and harmonic measures. (Chinese. English and Chinese summaries) **99b:31003**
Ma, Zhi-Ming *see* **Dong, Zhao; et al., 99d:31004**
Martínez, Servet A. *see* **Dellacherie, C.; et al., 99k:60114**
Masur, Howard *see* **Kaimanovich, Vadim A., 99h:30044**
Mataloni, Silvia Some duality results for the capacity theory related to non-symmetric Dirichlet forms. (English summary) **99j:31013**
McGillivray, Ivor *see* **Demuth, Michael; et al., 99f:31007**
Mossel, Elchanan *see* **Häggström, Olle, 99h:60165**
Noll, A. *see* **Demuth, Michael; et al., 99f:31007**
Osada, Hirofumi Interacting Brownian motions with measurable potentials. **99g:60191**
Oshima, Yōichi Families of time-dependent Dirichlet forms and corresponding Markov processes. (Japanese) (*see* **99a:00036**)
Pemantle, Robin Sharpness of second moment criteria for branching and tree-indexed processes. (English summary) **99c:60194**
Peres, Yuval *see* **Evans, Steven N., 99g:60130**
Popescu, Emil[2] An extension of Meyer's theorem concerning the subordination of sub-Markovian resolvents. **99j:31018**
Röckner, Michael (*with* Zhang, Tu Sheng) Convergence of operators semigroups generated by elliptic operators. **99d:31005**
— Dirichlet forms on infinite-dimensional "manifold-like" state spaces: a survey of recent results and some prospects for the future. (English summary) **99d:31006**
San Martín, Jaime *see* **Dellacherie, C.; et al., 99k:60114**
Sheu, Shey Shiung The sets containing points of multiplicity c of planar Brownian paths. (English summary) **99i:60158**
Sowers, Richard B. (*with* Wu, Jang-Mei) Thermal capacity estimates on the Allen-Cahn equation. (English summary) **99i:31006**
Sun, Wei[3] *see* **Dong, Zhao; et al., 99d:31004**
Taïbi, D. *see* **Dellacherie, C.; et al., 99k:60114**
Uchiyama, Kôhei Wiener's test for random walks with mean zero and finite variance. (English summary) **99g:60126**
— Green's functions for random walks on $\mathbf{Z}^N$. **99f:60132**
Wu, Jang-Mei *see* **Sowers, Richard B., 99i:31006**
Xiong, Shuang Ping The polarity and Hausdorff dimension of a class of self-similar Markov processes. (Chinese. English and Chinese summaries) **99j:60112**
Ying, Jiangang Revuz measures and related formulas on energy functional and capacity. (English summary) **99k:60194**
Zhang, Tu Sheng *see* **Röckner, Michael, 99d:31005**

60J50 Boundary theory

Aldous, David J. (*with* Limic, Vlada) The entrance boundary of the multiplicative coalescent. (English summary) **99d:60086**
Babillot, Martine Asymptotics of Green functions on a class of solvable Lie groups. (English summary) **99g:60133**
Fisher, Albert M. *see* **Kaimanovich, Vadim A., 99d:60087**
Kaimanovich, Vadim A. (*with* Fisher, Albert M.) A Poisson formula for harmonic projections. (English and French summaries) **99d:60087**
Kurkova, I. A. (*with* Malyshev, V. A.) Martin boundary and elliptic curves. (English summary) **99h:60149**
Limic, Vlada *see* **Aldous, David J., 99d:60086**
Malyshev, V. A. *see* **Kurkova, I. A., 99h:60149**

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Bogdan, Krzysztof (*with* Byczkowski, Tomasz) Potential theory for the α-stable Schrödinger operator on bounded Lipschitz domains. (English summary) **99m:31010**
Burdzy, Krzysztof (*with* Salisbury, Thomas S.) On minimal parabolic functions and time-homogeneous parabolic h-transforms. (English summary) **99m:60113**
Byczkowski, Tomasz *see* **Bogdan, Krzysztof, 99m:31010**
Fukushima, Masatoshi Dirichlet forms, Caccioppoli sets and the Skorohod equation. **99m:60126**
— Analysis of symmetric diffusion processes and related topics in analysis. (Japanese) **99g:60138**
Kaimanovich, Vadim A. (*with* Masur, Howard) The Poisson boundary of Teichmüller space. (English summary) **99h:30044**
Kim, Dae Hong (*with* Kim, Jai Heui; Yun, Yong Sik) Non-symmetric Dirichlet forms for oblique reflecting diffusions. (English summary) **99b:60129**
Kim, Jai Heui *see* **Kim, Dae Hong; et al., 99b:60129**
Knöpfel, Holger The restricted mean value property for sub-Laplacians. **99b:31011**
Masur, Howard *see* **Kaimanovich, Vadim A., 99h:30044**
Salisbury, Thomas S. *see* **Burdzy, Krzysztof, 99m:60113**
Schiffmann, Gérard Frontières de Furstenberg et formules de Poisson sur un groupe de Lie semi-simple (d'après Harry Furstenberg) [MR 31 #3982]. [Furstenberg boundaries and Poisson formulas on a semisimple Lie group (after Harry Furstenberg)] (*see* **99f:00040**)
Taira, Kazuaki Analytic Feller semigroups. **99e:60167**
Yun, Yong Sik *see* **Kim, Dae Hong; et al., 99b:60129**

60J55 Local time and additive functionals

Aldous, David J. Brownian excursion conditioned on its local time. **99m:60115**
Boufoussi, B. (*with* Eddahbi, M'Hamed; Kamont, Anna) Sur la dérivée fractionnaire du temps local brownien. (English summary) [On the fractional derivative of Brownian local time] **99c:60167**
Cadre, Benoît Une preuve standard du principe d'invariance de Stoll. [A standard proof of Stoll's invariance principle] **99e:60169**
Cho, Nhansook On the square of Brownian density process. (English summary) **99e:60170**
Davis, Burgess Distribution of Brownian local time on curves. (English summary) **99d:60088**
Dozzi, Marco (*with* Soltani, A. Reza) Local time for stable moving average processes: Hölder conditions. (English summary) **99a:60081**
Dynkin, E. B. Polylinear additive functionals of superprocesses. (English summary) **99a:60082**
Eddahbi, M'Hamed *see* **Boufoussi, B.; et al., 99c:60167**
Eisenbaum, Nathalie Une version sans conditionnement du théorème d'isomorphisms de Dynkin. (English summary) [An unconditioned version of Dynkin's isomorphism theorem] **99e:60171**
— Théorèmes limites pour les temps locaux d'un processus stable symétrique. (French summary) [Limit theorems for the local times of a symmetric stable process] **99f:60138**
Kamont, Anna *see* **Boufoussi, B.; et al., 99c:60167**
Kasahara, Yuji (*with* Ogawa, Namiko) A note on the local time of fractional Brownian motion. (English summary) **99k:60197**
Kim, Jai Heui On continuous additive functionals of zero energy. (English summary) **99e:60172**
Molchan, G. M. Anomalies in multifractral formalism for local time of Brownian motion. (English summary) **99g:60134**
Nasyrov, F. S. On continuous local times for functions and random processes. II. (English summary) **99g:60135**
Ogawa, Namiko *see* **Kasahara, Yuji, 99k:60197**
Pitman, Jim (*with* Yor, Marc) On the relative lengths of excursions derived from a stable subordinator. (English summary) **99a:60083**
Sato, Sadao (*with* Yor, Marc) Computations of moments for discounted Brownian additive functionals. **99k:60198**
Soltani, A. Reza *see* **Dozzi, Marco, 99a:60081**
Todorova, Ekaterina Self-intersection local time of generalized Gaussian processes over time rectangles. (English summary) **99i:60146**
Xiao, Yimin Local times and related properties of multidimensional iterated Brownian motion. (English summary) **99g:60136**
Ying, Jiangang Dirichlet forms perturbated by additive functionals of extended Kato class. **99e:60173**
Yor, Marc On certain discounted arc-sine laws. **99b:60123**
— *see also* **Pitman, Jim, 99a:60083** *and* **Sato, Sadao, 99k:60198**
Zhou, Yong[2] The distribution of limit points of increments of local time of the Wiener process. (English summary) **99i:60147**

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Alili, Larbi On some hyperbolic principal values of Brownian local times. (English summary) **99h:60152**
Bertoin, Jean Cauchy's principal value of local times of Lévy processes with no negative jumps via continuous branching processes. (English summary) **99b:60120**
Berzin, Corinne (*with* León, José R.) Weak convergence of the integrated number of level crossings to the local time for Wiener processes. (Russian summary) **99e:60181**
— (*with* León, José R.; Ortega, Joaquín) Level crossings and local time for regularized Gaussian processes. (English summary) **99i:60087**
Csáki, Endre (*with* Földes, A.; Révész, Pál) A strong invariance principle for the local time difference of a simple symmetric planar random walk. (English summary) **99i:60065**
Davis, Burgess Perturbed random walks and Brownian motions, and local times. (English summary) **99f:60142**
Dawson, Donald A. (*with* Fleischmann, Klaus) Longtime behavior of a branching process controlled by branching catalysts. (English summary) **99c:60187**
Deuschel, Jean-Dominique (*with* Rosen, Jay) Occupation time large deviations for critical branching Brownian motion, super-Brownian motion and related processes. (English summary) **99g:60057**
Doney, R. A. (*with* Yor, Marc) On a formula of Takács for Brownian motion with drift. (English summary) **99f:60143**
Dynkin, E. B. (*with* Kuznetsov, Sergei E.) Natural linear additive functionals of superprocesses. (English summary) **99c:60168a**
— (*with* Kuznetsov, Sergei E.) Nonlinear parabolic P.D.E. and additive functionals of superdiffusions. (English summary) **99c:60168b**
Eddahbi, M'Hamed Application des transformées de Radon à la décomposition de certains processus de Dirichlet. (French summary) [Application of Radon transforms to the decomposition of certain Dirichlet processes] **99c:60178**
Eisenbaum, Nathalie (*with* Kaspi, Haya) On the Markov property of local time for Markov processes on graphs. **99c:60159**
Émery, M. (*with* Yor, Marc) Sur un théorème de Tsirelson relatif à des mouvements browniens corrélés et à la nullité de certains temps locaux. [On a theorem of Tsirelson concerning correlated Brownian motions and the nullity of certain local times] **99j:60119**
Evans, Steven N. (*with* Pitman, Jim) Stopped Markov chains with stationary occupation times. (English summary) **99a:60068**
— (*with* Perkins, Edwin A.) Collision local times, historical stochastic calculus, and competing superprocesses. (English summary) **99h:60098**
Fitzsimmons, P. J. The quasi-sure ratio ergodic theorem. (English and French summaries) **99h:60147**
Fleischmann, Klaus *see* **Dawson, Donald A., 99c:60187**
Földes, A. *see* **Csáki, Endre; et al., 99i:60065**
Fourati, S. Points de croissance des processus de Lévy et théorie générale des processus. (English summary) [Increase times of Lévy processes and general theory of processes] **99e:60164**
Fukushima, Masatoshi Dirichlet forms, Caccioppoli sets and the Skorohod equation. **99m:60126**
— Distorted Brownian motions and BV functions. (English summary) **99m:60127**
Helmers, Roelof A note on bootstrapping the local time of the empirical process. (English summary) **99b:62074**
van der Hofstad, R. W. ★ One-dimensional random polymers. (English summary)

99m:82026
Hu, Yue Yun (*with* Shi, Zhan; Yor, Marc) Some applications of Lévy's area formula to pseudo-Brownian and pseudo-Bessel bridges. (English summary) **99j:60122**
— (*with* Shi, Zhan) Favourite sites of transient Brownian motion. (English summary) **99a:60088**
Huang, Lihu (*with* Li, Bing Zhang; Liu, Luqin) Some fractal properties of a class of self-similar Markov processes. (English summary) **99i:60143**
Kaspi, Haya *see* **Eisenbaum, Nathalie**, **99c:60159**
Khoshnevisan, Davar (*with* Lewis, Thomas M.) A law of the iterated logarithm for stable processes in random scenery. (English summary) **99g:60131**
Kotani, Shin-ichi Analytic approach to Yor's formula of exponential additive functionals of Brownian motion. **99c:60180**
Kuznetsov, Sergei E. *see* **Dynkin, E. B.**, **99c:60168a** *and* **99c:60168b**
Le Gall, Jean-François (*with* Le Jan, Yves) Branching processes in Lévy processes: the exploration process. (English summary) **99d:60096**
Le Jan, Yves *see* **Le Gall, Jean-François**, **99d:60096**
León, José R. *see* **Berzin, Corinne**, **99e:60181** *and* **99i:60087**
Lewis, Thomas M. *see* **Khoshnevisan, Davar**, **99g:60131**
Li, Bing Zhang *see* **Huang, Lihu; et al.**, **99i:60143**
Liu, Luqin *see* **Huang, Lihu; et al.**, **99i:60143**
Marchal, Philippe Distribution of the occupation time for a Lévy process at passage times at 0. (English summary) **99k:60193**
Marsalle, Laurence Hausdorff measures and capacities for increase times of stable processes. (English summary) **99m:60109**
Mishura, Yu. S. Some properties of local times for Markov random fields. (Ukrainian. Ukrainian summary) **99e:60119**
Nasyrov, F. S. Quasi-integrals and stochastic integration along sample paths. (English summary) **99h:60109**
Ortega, Joaquín *see* **Berzin, Corinne; et al.**, **99i:60087**
Perera, Gonzalo (*with* Wschebor, Mario) Crossings and occupation measures for a class of semimartingales. (English summary) **99k:60064**
Perkins, Edwin A. *see* **Evans, Steven N.**, **99h:60098**
Petit, Frédérique On principal values of perturbed Brownian motion. **99k:60207**
— Time reversal and reflected diffusions. (English summary) **99c:60173**
Pitman, Jim *see* **Evans, Steven N.**, **99a:60068**
Révész, Pál *see* **Csáki, Endre; et al.**, **99i:60065**
Rosen, Jay *see* **Deuschel, Jean-Dominique**, **99g:60057**
Shi, Zhan A local time curiosity in random environment. (English summary) **99i:60176**
— *see also* **Hu, Yue Yun**, **99a:60088** *and* **99j:60122**
Warren, Jonathan Branching processes, the Ray-Knight theorem, and sticky Brownian motion. **99c:60183**
— (*with* Yor, Marc) The Brownian burglar: conditioning Brownian motion by its local time process. **99k:60208**
Watanabe, Shinzo Wiener functionals with the regularity of fractional order. (English summary) **99k:60147**
Wschebor, Mario *see* **Perera, Gonzalo**, **99k:60064**
Yor, Marc *see* **Doney, R. A.**, **99f:60143**; **Émery, M.**, **99j:60119**; **Hu, Yue Yun; et al.**, **99j:60122** *and* **Warren, Jonathan**, **99k:60208**
Zahid, Mehdi Fonctionnelle additive et ellipticité. [Additive functional and ellipticity] **99c:60166**

60J57 Multiplicative functionals

Items with secondary classifications in 60J57

Kramkov, D. O. (*with* Shiryaev, A. N.) Sufficient conditions of the uniform integrability of exponential martingales. **99g:60150**
Ôkura, Hiroyuki A new approach to the skew product of symmetric Markov processes. (English summary) **99h:60148**
Shiryaev, A. N. *see* **Kramkov, D. O.**, **99g:60150**
Tang, Jia Shan The support of super-Brownian motions on a hyperbolic space. (Chinese. Chinese summary) **99e:60193**
Ying, Jiangang The Feynman-Kac formula for symmetric Markov processes. (English summary) **99c:60161**
— Remarks on *h*-transform and drift. (English summary) **99k:60196**
— Revuz measures and related formulas on energy functional and capacity. (English summary) **99k:60194**

60J60 Diffusion processes [see also 58G32]

Abundo, Mario On some properties of one-dimensional diffusion processes on an interval. (English summary) **99b:60124**
Albeverio, Sergio (*with* Morato, Laura M.; Ugolini, S.) Non-symmetric diffusions and related Hamiltonians. (English summary) **99j:60117**
Balaji, Srinivasan (*with* Ramasubramanian, Sundareswaran) Recurrence and transience of diffusions in a half-space. (English summary) **99b:60125**
— (*with* Ramasubramanian, Sundareswaran) Reflecting diffusions in an orthant: an introduction. (English summary) **99k:60199**
Brandão, Augusto (*with* Kolsrud, Torbjörn) Phase space transformations of Gaussian diffusions. (English summary) **99m:60116**
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60Kxx Special processes

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60K15 Markov renewal processes, semi-Markov processes

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60K20 Applications of Markov renewal processes (reliability, queueing networks, etc.) [see also 90Bxx]

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Nemirovskii, Arkadii *see* **Goldenshluger, Alexander**, **99c:62091**

Pergamenshchikov, S. M. *see* **Konev, Viktor**, **99k:62169**

Raimondo, Marc Minimax estimation of sharp change points. (English summary) **99i:62076**

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Yu, Sheng Hua Linear minimax estimation of regression coefficients in general Gauss-Markov models under a matrix loss function. (Chinese. English and Chinese summaries)

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62C25 Compound decision problems

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Liu, Zhihui Convergence rates of symmetrized product measures. (English summary) **99g:62018**

Magiera, Ryszard Minimax sequential procedures for Markov renewal processes. (English summary) (*see* **99a:90009**)
Zhang, Shunpu (*with* Karunamuni, Rohana J.) Empirical Bayes estimation for the continuous one-parameter exponential family with errors in variables. (English summary) **99c:62018**

62C99 None of the above, but in this section

Ahn, Sung Jin *see* **Sung, Chang Sup**, **99h:62013**
Fischer, Paul (*with* Klasner, Norbert; Wegener, Ingo) On the cut-off point for combinatorial group testing. (English summary) **99k:62018**
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Sung, Chang Sup (*with* Ahn, Sung Jin) A proportional-reduction-in-impurity measure of association for categorical variables. (English summary) **99h:62013**
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Dudley, Richard M. (*with* Haughton, Dominique M. A.) Information criteria for multiple data sets and restricted parameters. (English summary) **99c:62074**
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Grim, Jiří (*with* Pudil, Pavel) On virtually binary nature of probabilistic neural networks. (English summary) (*see* **99k:68002**)
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Stępniak, Czesław Matrix loss in comparison of linear experiments. (English summary) **99c:62012**

62D05 Sampling theory, sample surveys

Adhikary, Arun K. *see* **Chadhury, Arijit; et al.**
Ahmad, Tauqueer A resampling technique for complex survey data. (English and Hindi summaries)
Ahmed, Md. Saleh A note on regression-type estimators using multiple auxiliary information. (English summary)
— *see also* **Islam, M. L.; et al.**
Aich, A. B. *see* **Nandi, S. B.**, (**99g:62003**)
Ali, Md. Almech *see* **Islam, M. L.; et al.**
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Arora, Vipin (*with* Lahiri, Parthasarathi; Mukherjee, Kanchan) Empirical Bayes estimation of finite population means from complex surveys. (English summary) **99i:62014**
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— (*with* Ojeda, Mario Miguel) Superpopulation models and some applications in sampling and in experimental design. (Spanish. English and Spanish summaries)
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Chadhury, Arijit (*with* Adhikary, Arun K.; Maiti, Tapabrata) A note on non-negative mean square error estimation of regression estimators in randomized response surveys. (English summary)
Chambers, R. L. Weighting and calibration in sample survey estimation. (*see* **99e:62002**)
Chang, Kuang-Chao (*with* Liu, Jeng-Fu; Han, Chien-Pai) Multiple inverse sampling in post-stratification. (English summary) **99f:62020**
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Chen, Song Xi Measurement errors in line transect surveys. (English and French summaries)
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Dasgupta, Ratan Nonuniform speed of convergence to normality while sampling from finite population. (English summary) **99k:62019**
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Feng, Shi Yong (*with* Zou, Guo Hua) Sample rotation method with auxiliary variable. (English summary) **99c:62024**
— (*with* Zou, Guo Hua) Comparison of variance estimates for systematic sampling—a new criterion. (Chinese. English and Chinese summaries)
— *see also* **Zou, Guo Hua**
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Ghazali, Syed Shakir Ali (*with* Masood Gilani, Ghosia) A formal algorithm of a sampling procedure for a 3-way stratified population. (English summary)
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Goldstein, Harvey *see* **Pfeffermann, Danny; et al.**, **99a:62013**
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Haas, Peter J. (*with* Stokes, Lynne) Estimating the number of classes in a finite population. (English summary)
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Helmers, Roelof (*with* Wegkamp, Marten) Wild bootstrapping in finite populations with auxiliary information. (English summary) **99m:62014**
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Khonov, S. A. *see* **Ivchenko, G. I.; et al.**, **99a:62012** *and* (**99f:60004**)
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— *see also* **Zamora, L.**
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Nandi, S. B. (*with* Aich, A. B.) Optimal stratified sampling—an information-theoretic approach. (*see* **99g:62003**)
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Panda, Pournamasi (*with* Sahoo, L. N.) Predictive estimation of finite population mean using a product estimator for two-stage sampling. (English summary)
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Ruíz Espejo, Mariano Covariance of sample moments for finite populations. (English summary)
— Comparison of the efficiency of randomized response models. (Spanish. English summary)
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Sahoo, L. N. (*with* Sahoo, J.; Ruíz Espejo, Mariano) On some strategies using auxiliary information for estimating finite population mean. (English summary)
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Shakir, Syed (*with* Ghazali, Ali) Modification of Jessen's method 3. (English summary)
Shao, Jun[1] (*with* Chen, Ying[1]; Chen, Yinzhong) Balanced repeated replication for stratified multistage survey data under imputation. (English summary) **99c:62027**
— (*with* Chen, Yinzhong) Bootstrapping sample quantiles based on complex survey data under hot deck imputation. (English summary) **99k:62024**
— (*with* Steel, Philip) Variance estimation for survey data with composite imputation and nonnegligible sampling fractions. (English summary)
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— (*with* Horn, Stephen; Chowdhury, Sadeq) Estimation of stigmatized characteristics of a hidden gang in a finite population. (English summary) **99i:62016**
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Thompson, M. E. ★ Theory of sample surveys. (English summary) **99c:62028**
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Wegkamp, Marten *see* **Helmers, Roelof, 99m:62014**
Ye, A Zhong Allocation of the sample sizes in 3 or 4-stage sampling. (Chinese. English and Chinese summaries)
Zamora, L. (*with* Menéndez Acuña, Ernesto) Study of a ratio-type estimator assisted by superpopulation models. (English and Spanish summaries)
Zheng, Yun Long An improved importance sampling technique. (Chinese. English and Chinese summaries)
Zou, Guo Hua (*with* Feng, Shi Yong) A generalized ratio estimator and a generalized difference estimator and their optimality. (Chinese. English and Chinese summaries)
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Chan, Kung Sik *see* **Lloyd, Christopher J.; et al.**
Chung, F. R. K. (*with* Graham, Ronald L.; Yau, Shing-Tung) On sampling with Markov chains. (English summary) **99c:15010**
Goldstein, Larry Mark (*with* Reinert, Gesine) Stein's method and the zero bias transformation with application to simple random sampling. (English summary) **99e:60059**
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Lloyd, Christopher J. (*with* Yip, Paul S. F.; Chan, Kung Sik) A comparison of recapture, removal and resighting designs for population size estimation. (English summary)
Muliere, Pietro (*with* Walker, Stephen Graham) Extending the family of Bayesian bootstraps and exchangeable urn schemes. (English summary) **99a:62063**
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Singer, Julio Motta *see* **Ho, Linda Lee, 99a:62100**
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Traat, I. On the Cornish-Fisher expansion in finite population. (English summary) (*see* **99g:62004**)
Walker, Stephen Graham *see* **Muliere, Pietro, 99a:62063**
Wright, Tommy A simple algorithm for tighter exact upper confidence bounds with rare attributes in finite universes. (English summary) **99b:62041**
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62Exx Distribution theory [see also 60Exx]

62E10 Characterization and structure theory

Ali, Md. Almech Characterization of Weibull and exponential distributions. (English summary) **99i:62018**
— (*with* Khan, Abdul Hamid) Characterization of some types of distributions. (English summary) **99e:62011**
Aliev, Fazil A. Characterization of distributions through weak records. (English summary) **99m:62017**
— *see also* **Bairamov, I. G.**
Arnold, Barry C. Characterizations involving conditional specification. (English summary) **99b:62010**
— (*with* Gokhale, D. V.) Distributions most nearly compatible with given families of conditional distributions. (English summary) **99j:62006**
Asadi, Majid Some general characterizations of the bivariate Gumbel distribution and the bivariate Lomax distribution based on truncated expectations. (English summary) **99k:62025**
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Baringhaus, Ludwig (*with* Grübel, Rudolf) On a class of characterization problems for random convex combinations. (English summary) **99c:62029**
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Grudzień, Zofia (*with* Szynal, Dominik) Characterizations of continuous distributions via moments of the kth record values with random indices. (English summary) **99f:62022**
— (*with* Szynal, Dominik) On characterizations of continuous distributions in terms of moments of order statistics when the sample size is random. (English summary) **99j:62007**
Gupta, Arjun K. *see* **Székely, Gábor, 99c:62032**
Gupta, Rameshwar D. (*with* Richards, Donald St. P.) Invariance properties of some classical tests for exponentiality. (English summary) **99f:62023**
Iwińska, Maria On the characterization of the exponential distribution by expected value of record value with random index. (English summary) **99e:62013**
Jiang, Ren Yan (*with* Murthy, D. N. P.) Mixture of Weibull distributions—parametric characterization of failure rate function. (English summary) **99e:62014**
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Laha, Radha Govinda *see* **Kagan, Abram; et al., 99a:62016**
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Lin, Gwo Dong Characterizations of the $\mathscr{L}$-class of life distributions. (English summary) **99k:62027**

López-Blázquez, Fernando Discrete distributions with maximum expected value of the maximum. (English summary) **99j:62008**
Ma, Chunsheng Characteristic properties of multivariate survival functions in terms of residual life distributions. (English summary) **99k:62028**
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Mukherjee, S. P. (*with* Roy, Dilip) Bivariate distributions through Cox's regression model. **99k:62029**
Murthy, D. N. P. *see* **Jiang, Ren Yan**, **99e:62014**
Nagaraja, H. N. (*with* Nevzorov, V. B.) On characterizations based on record values and order statistics. (English summary) **99c:62031**
Navarro, Jorge (*with* Ruiz Gómez, José María; Zoroa Alonso, Noemí) A unified approach to characterization problems using conditional expectations. (English summary) **99e:62015**
Nevzorov, V. B. *see* **Nagaraja, H. N.**, **99c:62031** *and* **Székely, Gábor**, **99c:62032**
Nguyen, Truc T. (*with* Dinh, Khoan T.) Characterizations of normal distributions supporting goodness-of-fit tests based on sample skewness and sample kurtosis. (English summary) **99m:62018**
Pakes, Anthony G. Characterization by invariance under length-biasing and random scaling. (English summary) **99i:62021**
Papadatos, Nickos (*with* Papathanasiou, V.) Total variation distance and generalized covariance kernels. (English summary) **99j:62009**
Papathanasiou, V. *see* **Papadatos, Nickos**, **99j:62009**
Pergamentsev, S. Yu. *see* **Chistyakov, G. P.**, **99a:62014**
Raqab, Mohammad Zayed Characterizations of continuous distributions based on moments of record values. (English and Italian summaries) **99b:62012**
Ravi, Sreenivasan *see* **Sathe, Y. S.**
Richards, Donald St. P. *see* **Gupta, Rameshwar D.**, **99f:62023**
Rohatgi, V. *see* **Kagan, Abram; et al.**, **99a:62016**
Roy, Dilip Some characterizations of a multivariate Lomax distribution within the class of generalised mixtures of exponential distributions. (English summary) **99i:62022**
— *see also* **Mukherjee, S. P.**, **99k:62029**
Ruiz Gómez, José María *see* **Navarro, Jorge; et al.**, **99e:62015**; **Franco, Manuel**, **99f:62021** *and* **99k:62026**
Sandhya, E. (*with* Satheesh, S.) On exponential mixtures, mixed Poisson processes and generalized Weibull and Pareto models. (English summary)
Sathe, Y. S. (*with* Ravi, Sreenivasan) A characterization of negative binomial distribution. (English summary)
Satheesh, S. *see* **Sandhya, E.**
Shanbhag, D. N. *see* **Fosam, E. B.**, **99d:62008**
Sun, Xiao Qian (*with* Wang, Jing Long) Confidence intervals of the scale parameter of exponential distribution. (Chinese. English and Chinese summaries)
Sunoj, S. M. (*with* Unnikrishnan Nair, N.) characterization of some bivariate life distributions by weighted models. (English summary)
Székely, Gábor (*with* Gupta, Arjun K.) On a paper of V. B. Nevzorov: "A characterization of exponential distributions by correlations between records" [Math. Methods Statist. **1** (1992), 49–54; MR 93m:62036]. (English summary) **99c:62032**
Szynal, Dominik *see* **Grudzień, Zofia**, **99f:62022** *and* **99j:62007**
Uchida, Masayuki Joint distributions of numbers of success-runs until the first consecutive k successes in a higher-order two-state Markov chain. (English summary) **99m:62019**
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Vakhaniya, N. N. Polya's characterization theorem for complex random variables. (English summary) **99b:62013**
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Wei, Bo-Cheng ★ Exponential family nonlinear models. (English summary) **99i:62023**
Wu, Jong-Wuu (*with* Lee, Wen-Chuan) Characterization of generalized mixtures of exponential distribution based on conditional expectation of order statistics. (English summary) **99k:62030**
Xu, Jian-Lun Characterizations of the exponential distribution via the blocking time in a queueing system with an unreliable server. (English summary)
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Boland, Philip J. An arrangement increasing property of the Marshall-Olkin bivariate exponential. (English summary) **99c:60029**
Bolfarine, Heleno (*with* Arellano-Valle, Reinaldo B.) Weak nondifferential measurement error models. (English summary) **99j:62105**
Cacoullos, T. (*with* Papathanasiou, V.) Characterizations of distributions by generalizations of variance bounds and simple proofs of the CLT. **99c:60030**
Cheng, Shi Xue Some new characterizations of Poisson processes regarded as renewal processes. (Chinese. English and Chinese summaries) **99g:60025**
Christoph, Gerd (*with* Schreiber, Karina) The generalized discrete Linnik distributions. (English summary) **99g:60030**
Cramer, Erhard Conditional iterative proportional fitting for Gaussian distributions. (English summary) **99h:62005**
Cuculescu, Ion (*with* Theodorescu, Radu) Multiplicative strong unimodality. (English summary) **99g:60026**
Erdoğan, Mehmet Burak (*with* Ostrovskiĭ, I. V.) Analytic and asymptotic properties of generalized Linnik probability densities. **99b:60018**
Gather, Ursula *see* **Kamps, Udo**, **99h:60020**
Ghoudi, Kilani (*with* Khoudraji, Abdelhaq; Rivest, Louis-Paul) Propriétés statistiques des copules de valeurs extrêmes bidimensionnelles. (English and French summaries) [Statistical properties of copulas of two-dimensional extrema] **99b:62091**
Gupta, Arjun K. (*with* Nguyen, Truc T.; Zeng, Wei-Bin) Characterization of multivariate distributions through a functional equation of their characteristic functions. (English summary) **99f:62070**
Hallin, Marc (*with* Jurečková, Jana; Milhaud, Xavier) Characterization of error distributions in time-series regression models. (English summary) **99i:62205**
van Harn, K. *see* **Steutel, Fred W.**, **99a:60096**
Hiejima, Yoshimitsu Interpretation of the quasi-likelihood via the tilted exponential family. (English summary) **99c:62051**
Huang, Jin-sheng[1] *see* **Lin, Gwo Dong**, **99e:60045**
Jurečková, Jana *see* **Hallin, Marc; et al.**, **99i:62205**
Kamps, Udo (*with* Gather, Ursula) Characteristic properties of generalized order statistics from exponential distributions. (English summary) **99h:60020**
— Subranges of generalized order statistics from exponential distributions. (English summary) **99e:62090**
Khoudraji, Abdelhaq *see* **Ghoudi, Kilani; et al.**, **99b:62091**
Letac, Gérard The retrieval of a rotation invariant distribution of (X, Y) from $\mathbf{E}(X^2|Y)$. (English summary) **99c:62152**
— (*with* Massam, Hélène) A formula on multivariate Dirichlet distributions. (English summary) **99e:60044**
Lin, Gwo Dong (*with* Huang, Jin-sheng[1]) The cube of a logistic distribution is indeterminate. (English summary) **99e:60045**
— A note on the Linnik distributions. (English summary) **99a:60010**
Massam, Hélène *see* **Letac, Gérard**, **99e:60044**
McDonald, James B. Probability distributions for financial models. **99h:60023**
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Nguyen, Truc T. *see* **Gupta, Arjun K.; et al.**, **99f:62070**
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Pakes, Anthony G. The laws of some random series of independent summands. (English summary) **99g:60027**
— Mixture representations for symmetric generalized Linnik laws. (English summary) **99h:60027**
Papathanasiou, V. *see* **Cacoullos, T.**, **99c:60030**
Pommeret, Denys Multidimensional Bhattacharyya matrices and exponential families. (English summary) **99c:62153**
Rajesh, G. (*with* Muraleedharan Nair, K. R.) Residual entropy function in discrete time. (English summary) **99j:62143**
Rivest, Louis-Paul *see* **Ghoudi, Kilani; et al.**, **99b:62091**
Rowell, Ginger (*with* Siegrist, Kyle) Relative aging of distributions. (English summary) **99k:60050**
Schreiber, Karina *see* **Christoph, Gerd**, **99g:60030**
Siegrist, Kyle *see* **Rowell, Ginger**, **99k:60050**
Steutel, Fred W. (*with* van Harn, K.) A generalization of the lifetime pairs of renewal theory. (English summary) **99a:60096**
Theodorescu, Radu *see* **Cuculescu, Ion**, **99g:60026**
Ushakova, A. P. Estimates of stability of characterization of additive types of distributions. (English summary) (*see* **99d:00033**)
Yun, Seokhoon On domains of attraction of multivariate extreme value distributions under absolute continuity. (English summary) **99b:60036**
Zeng, Wei-Bin *see* **Gupta, Arjun K.; et al.**, **99f:62070**

62E15 Exact distribution theory

Abdous, Belkacem (*with* Theodorescu, Radu) Mean, median, mode. IV. (English summary) **99k:62031**
Ahmad, Abd EL-Baset A. Recurrence relations for single and product moments of record values from Burr type XII distribution and a characterization. (English summary) **99b:62014**
Akahira, Masafumi *see* **Takahashi, Kunihiko**, (**99a:62005**)
Alam, M. S. *see* **Rahman, Md. Shafiqur**, **99f:62025**
Ali, Mir Masoom *see* **Roy, Manindra Kumar; et al.**
Alm, Sven Erick Approximation and simulation of the distributions of scan statistics for Poisson processes in higher dimensions. (English summary) **99j:62010**
Antzoulakos, Demetris L. *see* **Tripsiannis, Gregory A.**, **99c:62036**
Balakrishnan, Narayanaswamy *see* **Johnson, Norman Lloyd[2]; et al.**, **99h:62014**
Bebbington, M. S. (*with* Lai, C. D.) A generalized negative binomial and applications. (English summary)
Cheong, Young-Ho *see* **Provost, Serge B.**, **99e:62017**
Dhanavanthan, P. Compound intervened Poisson distribution. (English summary)
Fukushima, Júlia T. (*with* Moran, Regina C. C. P.; Vlachonikolis, Ioannis G.) On the distribution of quadratic forms and applications in the analysis of repeated measurements. (English summary) **99i:62024**
Gao, Hongsheng (*with* Smith, Peter Jeffry) Some bounds on the distribution of certain quadratic forms in normal random variables. (English summary) **99j:62011**
Garg, Mridula (*with* Gupta, Mahesh Kumar) Application of convolution for distribution of sum of two independent random variables. (English summary)
Geetha, K. G. (*with* Ramachandran Nair, V. K.) A class of bivariate distributions with specified conditionals. (English summary) **99j:62012**
Ghitany, M. E. On a recent generalization of gamma distribution. (English summary) **99d:62009**
Groeneveld, Richard A. A class of quantile measures for kurtosis. (English summary)
Gupta, Mahesh Kumar *see* **Garg, Mridula**
Gupta, Pushpa L. (*with* Gupta, Ramesh C.; Tripathi, Ram C.) On the monotonic properties of discrete failure rates. (English summary) **99d:62010**
Gupta, Ramesh C. *see* **Gupta, Pushpa L.; et al.**, **99d:62010**
Han, Kwang-Hee A weak negative orthant dependence. (English summary) **99k:62032**
He, Jie *see* **Schuster, Eugene F.**, **99a:62017**
Hong, Yeon Woong A bivariate extension of the two-parameter exponential distribution. (Korean. English and Korean summaries)
Janardan, K. G. Generalized Polya Eggenberger family of distributions and its relation to Lagrangian Katz family. (English summary)
Jensen, D. R. Peakedness of linear forms in ensembles and mixtures. (English summary) **99c:62033**
Johnson, Norman Lloyd[2] (*with* Kotz, Samuel; Balakrishnan, Narayanaswamy) ★ Discrete multivariate distributions. (English summary) **99h:62014**
Kim, Jeong-Ryeol *see* **Mittnik, Stefan; et al.**, **99b:62015**

Kirkire, P. D. *see* **Sreehari, M., 99j:62016**
Kotz, Samuel *see* **Johnson, Norman Lloyd; et al., 99h:62014**
Koudou, Angelo Efoévi Lancaster bivariate probability distributions with Poisson, negative binomial and gamma margins. (English summary) **99i:62025**
Kumar, C. Satheesh *see* **Moothathu, T. S. K.**
Lai, C. D. *see* **Bebbington, M. S.**
Lin, Gwo Dong On the Mittag-Leffler distributions. (English summary) **99m:62020**
Liu, Wan Rong Some properties of a dispersive ordering of p-dimensional distribution functions. (Chinese. English and Chinese summaries)
Mardia, Kanti V. Fisher's repeated normal integral function and shape distributions. (English summary) **99e:62016**
Mathai, A. M. (*with* Moschopoulos, P. G.) A multivariate inverted beta model. (English and Italian summaries)
Minami, Mihoko Multivariate Lagrange distributions and a subfamily. (English summary) **99g:62015**
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Moothathu, T. S. K. (*with* Kumar, C. Satheesh) On bivariate generalized hypergeometric probability distributions. (English summary)
Moran, Regina C. C. P. *see* **Fukushima, Júlia T.; et al., 99i:62024**
Moschopoulos, P. G. *see* **Mathai, A. M.**
Murat, Małgorzata (*with* Szynal, Dominik) Non-zero inflated modified power series distributions. (English summary) **99j:62013**
Novák, Andreas J. *see* **Pötscher, Benedikt M., 99c:62034**
Ojo, M. O. Some relationships between the generalized logistic and other distributions. (English and Italian summaries) **99i:62026**
Polisicchio, Marcella (*with* Zenga, Michele) Kurtosis diagram for continuous variables. (English and Italian summaries)
Pötscher, Benedikt M. (*with* Novák, Andreas J.) The distribution of estimators after model selection: large and small sample results. (English summary) **99c:62034**
Provost, Serge B. (*with* Cheong, Young-Ho) The probability content of cones in isotropic random fields. (English summary) **99e:62017**
Purkayastha, Sumitra Simple proofs of two results on convolutions of unimodal distributions. (English summary) **99j:62014**
Rachev, Svetlozar T. *see* **Mittnik, Stefan; et al., 99b:62015**
Rahman, Md. Shafiqur (*with* Alam, M. S.) Family of discrete mixture distributions. (English summary) **99f:62025**
Ramachandran Nair, V. K. *see* **Geetha, K. G., 99j:62012**
Rathie, Arjun K. On Banach's match box problem. (English summary) **99i:62027**
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Schuster, Eugene F. (*with* He, Jie) On mode(s) and shape of the PDFs of the number of runs and of the maximum of runs by type. (English summary) **99a:62017**
Schwacke, Lorelei H. *see* **Voit, Eberhard O., 99j:62017**
Seshadri, Vanamamalai A property of natural exponential families in $\mathbf{R}^n$ with simple quadratic variance functions. (English summary) **99c:62035**
—★ The inverse Gaussian distribution. (English summary) **99j:62015**
Sinha, Sanjoy Kumar *see* **Roy, Manindra Kumar; et al.**
Smith, Peter Jeffry *see* **Gao, Hongsheng, 99j:62011**
Sreehari, M. (*with* Kirkire, P. D.) Generating non-normal stable variables. **99j:62016**
Strotmann, Harald A new Tchebycheff-type inequality for deviations from the median. (English and Italian summaries)
Szynal, Dominik *see* **Murat, Małgorzata, 99j:62013**
Takahashi, Kunihiko (*with* Akahira, Masafumi) An approximation to a percentage point of the distribution of the kurtosis statistic b_2. (Japanese) (*see* **99a:62005**)
Theodorescu, Radu *see* **Abdous, Belkacem, 99k:62031**
Torigoe, Norio Percentage point approximations of the doubly noncentral F distribution. (Japanese) (*see* **99a:62005**)
Tripathi, Ram C. *see* **Gupta, Pushpa L.; et al., 99d:62010**
Tripsiannis, Gregory A. On modified multivariate Polya and inverse Polya distributions of order k. (English summary)
— (*with* Antzoulakos, Demetris L.) On multivariate inverse Polya and related distributions of order k. (English summary) **99c:62036**
Vlachonikolis, Ioannis G. *see* **Fukushima, Júlia T.; et al., 99i:62024**
Voit, Eberhard O. (*with* Schwacke, Lorelei H.) Scalability properties of the S-distribution. (English and German summaries) **99j:62017**
Zenga, Michele *see* **Polisicchio, Marcella**

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Adamidis, K. (*with* Loukas, S.) A lifetime distribution with decreasing failure rate. (English summary) **99i:62234**
Ali, Md. Almech (*with* Khan, Abdul Hamid) Recurrence relations for the expectations of a function of single order statistic from general class of distributions. (English summary) **99e:62086**
Alzer, Horst Inequalities for the chi square distribution function. (English summary) **99d:60014**
Bredrup, Edvin (*with* Zhang, Li-Chun) Imperfectly shuffled decks in bridge. (English summary)
Das, Kishore K. *see* **Nandi, S. B., 99k:60033**
Díaz-García, José A. (*with* Gutiérrez Jáimez, Ramón; Mardia, Kanti V.) Wishart and pseudo-Wishart distributions and some applications to shape theory. (English summary) **99e:62095**
Faddy, M. J. Markov death process modelling and analysis of binary data. (English summary)
Gani, Joseph Mark On sequences of events with repetitions. (English summary) **99c:60012**
Gupta, Rameshwar D. (*with* Richards, Donald St. P.) Multivariate Liouville distributions. V. (English summary) **99c:60022**
Gutiérrez Jáimez, Ramón *see* **Díaz-García, José A.; et al., 99e:62095**
Hossain, Md. Forhad *see* **Islam, M. K.**
Islam, M. K. (*with* Hossain, Md. Forhad) A note on combinatorial problems: some propositions. (English summary)
Janardan, K. G. A stochastic model for the number of accidents and a class of distributions for the number of fatalities. (English summary) **99m:62148**
Khan, Abdul Hamid *see* **Ali, Md. Almech, 99e:62086**
Krummenauer, Frank Representation of multivariate discrete distributions by probability generating functions. (English summary)
Kurumai, Hiroko (*with* Ohtani, Kazuhiro) The exact distribution and density functions of a pre-test estimator of the error variance in a linear regression model with proxy variables. (English summary) **99b:62104**
Lamontagne, Érick *see* **Marchand, Éric, 99k:60049**
Leipnik, R. B. Concurrent catastrophes: the sum of two independent Gumbels. (French summary)
Letac, Gérard (*with* Massam, Hélène) A formula on multivariate Dirichlet distributions. (English summary) **99e:60044**
Lin, Gwo Dong On the moment problems. (English summary) **99a:44007**
Loukas, S. *see* **Adamidis, K., 99i:62234**
Marchand, Éric (*with* Lamontagne, Érick) On a surprising covariance identity. (English summary) **99k:60049**
Mardia, Kanti V. *see* **Díaz-García, José A.; et al., 99e:62095**
Marshall, Albert W. (*with* Olkin, Ingram) A new method for adding a parameter to a family of distributions with application to the exponential and Weibull families. (English summary) **99h:62125**
Massam, Hélène *see* **Letac, Gérard, 99e:60044**
Mathai, A. M. Random distances associated with triangles. (English summary) **99m:60023**
Matsunawa, Tadashi *see* **Tsuchiya, Takahiro**
Mishra, Amarendra *see* **Sen, Kanwar, 99h:60016**
Nandi, S. B. (*with* Das, Kishore K.) A family of the multivariate Abel series distributions. (English summary) **99k:60033**
Nguyen, Ha H. On the distribution of order statistics from a p-wild distribution. (English summary) (*see* **99b:62003**)
Nigm, E. M. On moments of order statistics for sample range and sample midrange from uniform population. (English summary)
Nikulin, Mikhail S. *see* **Voinov, V. G., 99k:11161**
Ohtani, Kazuhiro *see* **Kurumai, Hiroko, 99b:62104**
Olkin, Ingram *see* **Marshall, Albert W., 99h:62125**
Perline, Richard Mixed Poisson distributions tail equivalent to their mixing distributions. (English summary) **99b:60022**
Popowska, Barbara Geometric approximation of mixture of discrete life time distributions. (English summary) **99e:62174**
Pushkarna, Narinder *see* **Saran, Jagdish**
Richards, Donald St. P. *see* **Gupta, Rameshwar D., 99c:60022**
Rukhin, Andrew L. Adaptive multiple decision procedures for exponential families. (English summary) **99d:62006**
Saran, Jagdish (*with* Pushkarna, Narinder) Some identities for moments of order statistics and their applications in combinatorial identities. (English summary)
Sen, Kanwar (*with* Mishra, Amarendra) A generalized Polya-Eggenberger model generating various discrete probability distributions. (English summary) **99h:60016**
Shih, Joanna H. Modeling multivariate discrete failure time data. (English and French summaries)
Soukup, Lubomír Probability distribution of transformed random variables with application to nonlinear feature extraction. (English summary) **99h:62041**
Sundt, Bjørn A generalisation of the De Pril transform. (English summary) **99a:62147**
Tsuchiya, Takahiro (*with* Matsunawa, Tadashi) Discrete multivariate model building based on a statistical fundamental difference equation. (Japanese. Japanese summary)
Voinov, V. G. (*with* Nikulin, Mikhail S.) Corrigendum: "Generating functions, problems of additive number theory, and some statistical applications" [Rev. Roumaine Math. Pures Appl. **40** (1995), no. 2, 107–147; MR 97e:11030].
— (*with* Nikulin, Mikhail S.) On some statistical and probability problems related to unipartite and multipartite partitions. (English summary) **99k:11161**
Wright, Peter A. The probability density function of process capability index C_{pmk}. (English summary) **99m:62153**
Zhang, Li-Chun *see* **Bredrup, Edvin**

62E17 Approximations to distributions (nonasymptotic)

Bobrowski, Dobiesław A. (*with* Popowska, Barbara) The estimate of the error for approximation of some discrete distribution by the geometric distribution. **99c:62037**
Butler, Ronald W. (*with* Sutton, Richard K.) Saddlepoint approximation for multivariate cumulative distribution functions and probability computations in sampling theory and outlier testing. (English summary) **99b:62016**
Dubov, I. R. Formation of observations and the approximation of the distribution density function of a continuous random variable. (Russian. Russian summary) **99j:62018**
Efstathiou, M. (*with* Gutiérrez-Peña, E.; Smith, Adrian F. M.) Laplace approximations for natural exponential families with cuts. (English summary) **99b:62017**
Fishman, George S. (*with* Rubin, David S.) Best- and worst-case variances when bounds are available for the distribution function. (English summary) **99k:62033**
Fraser, Donald A. S. (*with* Wong, A. C. M.; Wu, Jian Rong) An approximation for the noncentral chi-squared distribution. (English summary) **99b:62018**
Geisser, Seymour *see* **Papandonatos, George D., 99b:62019**
Gutiérrez-Peña, E. *see* **Efstathiou, M.; et al., 99b:62017**
Kolassa, John E. Uniformity of double saddlepoint conditional probability approximations. (English summary) **99e:62018**
Maesono, Yoshihiko Asymptotic mean square errors of variance estimators for U-statistics and their Edgeworth expansions. (English summary) **99m:62021**
Marsh, Patrick W. N. Saddlepoint approximations for noncentral quadratic forms. (English summary) **99e:62019**
Na, Jonghwa Saddlepoint approximation to the distribution of general statistic. (Korean. English and Korean summaries) **99i:62028**

Papandonatos, George D. (*with* Geisser, Seymour) Laplace approximations for censored linear regression models. (English and French summaries) **99b:62019**
Popowska, Barbara *see* **Bobrowski, Dobiesław A., 99c:62037**
Rubin, David S. *see* **Fishman, George S., 99k:62033**
Smith, Adrian F. M. *see* **Efstathiou, M.; et al., 99b:62017**
Sutton, Richard K. *see* **Butler, Ronald W., 99b:62016**
Wong, A. C. M. *see* **Fraser, Donald A. S.; et al., 99b:62018**
Wu, Jian Rong *see* **Fraser, Donald A. S.; et al., 99b:62018**

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Barbour, A. D. (*with* Utev, Sergei) Solving the Stein equation in compound Poisson approximation. (English summary) **99h:60040**
Chen, Gemai The run length distributions of the R, s and s^2 control charts when σ is estimated. (English and French summaries)
Chen, Louis H. Y. Stein's method: some perspectives with applications. (English summary) **99i:60047**
Delmas, Céline An asymptotic expansion for the distribution of the maximum of a class of Gaussian fields. (English and French summaries) **99m:60063**
Dhaene, Jan (*with* Sundt, Bjørn) On approximating distributions by approximating their De Pril transforms. (English summary) **99e:62176**
Dudkiewicz, J. Compound Poisson approximation for extremes of moving minima in arrays of independent random variables. (English summary) **99f:60042**
Field, C. A. (*with* Tingley, M. A.) Small sample asymptotics: applications in robustness. (*see* **99d:62025**)
Michna, Zbigniew Self-similar processes in collective risk theory. (English summary) **99j:60049**
Mukhin, A. B. Approximation of local probabilities of sums of independent random variables. (Russian. Russian summary) **99h:60094**
Sundt, Bjørn *see* **Dhaene, Jan, 99e:62176**
Tingley, M. A. *see* **Field, C. A., (99d:62025)**
Utev, Sergei *see* **Barbour, A. D., 99h:60040**
Yamazato, Makoto Estimation and testing of the mode of a probability distribution. (Japanese) (*see* **99f:65007**)

62E20 Asymptotic distribution theory

Akahira, Masafumi *see* **Takahashi, Kunihiko, (99m:62007)**
Andrews, Donald W. K. A conditional Kolmogorov test. (English summary) **99b:62020**
Bening, V. E. Testing of statistical hypotheses: a method for obtaining asymptotic expansions under alternatives based on the properties of the likelihood ratio. (*see* **99b:62004**)
Berlinet, Alain (*with* Gannoun, Ali; Matzner-Løber, Eric) Normalité asymptotique d'estimateurs convergents du mode conditionnel. (English and French summaries) [Asymptotic normality of convergent estimators of the conditional mode] **99k:62034**
Bhattacharya, Rabi Nath (*with* Chan, Ngai Hang) Comparisons of chisquare, Edgeworth expansions and bootstrap approximations to the distribution of the frequency chisquare. (English summary) **99k:62035**
Chan, Ngai Hang *see* **Bhattacharya, Rabi Nath, 99k:62035**
Frank, O. (*with* Menéndez, M. L.; Pardo, Leandro) Asymptotic distributions of weighted divergence between discrete distributions. (English summary) **99c:62038**
Gannoun, Ali *see* **Berlinet, Alain; et al., 99k:62034**
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— Errata: "Lattice point problems and the central limit theorem in Euclidean spaces". **99g:62016b**
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Severini, Thomas A. An approximation to the modified profile likelihood function. (English summary)
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62E25 Monte Carlo studies

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Eastwood, Brian J. (*with* Eastwood, Vera R.) Tabulating weighted sup-norm functionals of Brownian bridges via Monte Carlo simulation. (English summary) **99k:60205**
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62E30 Formal computational methods (polykays, etc.)

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Kibzun, A. I. (*with* Uryas′ev, S. P.) Differentiability of probability function. (English summary) **99k:60032**
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62E99 None of the above, but in this section

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62Fxx Parametric inference

62F03 Hypothesis testing

Abu-Dayyeh, Walid (*with* Muttlak, Hassen A.) Using ranked set sampling for hypothesis tests on the scale parameter of the exponential and uniform distributions. (English summary)
— Local power of tests in the presence of nuisance parameters with an application. (English summary)
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Davison, A. C. (*with* Stafford, J. E.) The score function and a comparison of various adjustments of the profile likelihood. (English and French summaries) **99g:62020**
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Bierens, Herman J. (*with* Ploberger, Werner) Asymptotic theory of integrated conditional moment tests. (English summary) **99a:62086**
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Gupta, Rameshwar D. (*with* Richards, Donald St. P.) Invariance properties of some classical tests for exponentiality. (English summary) **99f:62023**
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Khuri, André I. (*with* Mathew, Thomas[1]; Sinha, Bimal Kumar) ★ Statistical tests for mixed linear models. (English summary) **99e:62123**
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Laskar, Mizan R. (*with* King, Maxwell L.) Estimation and testing of regression disturbances based on modified likelihood functions. (English summary) **99f:62034**
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Menéndez, M. L. (*with* Morales, Domingo; Pardo, Leandro; Vajda, Igor) Two approaches to grouping of data and related disparity statistics. (English summary) **99g:62009**
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Dikta, Gerhard On semiparametric random censorship models. (English summary) **99b:60043**
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Dykstra, Richard L. (*with* Kochar, Subhash; Robertson, Tim) Restricted tests for testing independence of time to failure and cause of failure in a competing-risks model. (English and French summaries) **99c:62141**
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Robertson, Tim *see* **Dykstra, Richard L.; et al., 99c:62141**
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62F11 Small sample properties of estimators

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Geisser, Seymour *see* **Papandonatos, George D., 99b:62019**
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62F12 Asymptotic properties of estimators

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Basu, Ayanendranath (*with* Basu, Srabashi) Penalized minimum disparity methods for multinomial models. (English summary)
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Bologna, Salvatore Asymptotic properties of estimators depending on preliminary estimations. (Italian. English and Italian summaries) **99h:62021**
Boumaza, Rachid Distribution asymptotique de l'affinité L^2 de densités gaussiennes. (English and French summaries) [Asymptotic distribution of L^2-affinity between Gaussian densities] **99k:62046**
Dorogovtsev, A. Ya. On asymptotic normality of the least square estimators of an infinite-dimensional parameter. (English summary) **99c:62058**
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Höpfner, Reinhard Estimating a stability parameter: asymptotics and simulations. (English summary) **99k:62048**
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Hu, Inchi Strong consistency of Bayes estimates in nonlinear stochastic regression models. (English summary) **99k:62049**
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Kass, Robert E. (*with* Vos, Paul W.) ★ Geometrical foundations of asymptotic inference. (English summary) **99b:62032**
Keribin, Christine Estimation consistante de l'ordre de modèles de mélange. (English and French summaries) [Consistent estimate of the order of mixture models] **99m:62030**
Knight, Keith Limiting distributions for L_1 regression estimators under general conditions. (English summary) **99f:62037**

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Krajka, Andrzej Estimators of g-monotone dependence functions. (English summary) **99j:62033**
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Mizera, Ivan (*with* Wellner, Jon A.) Necessary and sufficient conditions for weak consistency of the median of independent but not identically distributed random variables. (English summary) **99d:62020**
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Rempała, Grzegorz (*with* Székely, Gábor) On estimation with elementary symmetric polynomials. (English summary) **99e:62025**
Sato, Michikazu On the rates of convergence of consistent estimators: an extreme phenomenon. (English summary) **99b:62035**
Seidel, Wilfried On asymptotic properties of estimators of moments in mixture models with non-identically distributed observations. (English summary) **99k:62052**
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Tsodikov, A. D. Asymptotic efficiency of a proportional hazards model with cure. (English summary)
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Viraswami, K. (*with* Reid, N.) A note on the likelihood-ratio statistic under model misspecification. (English and French summaries) **99g:62030**
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Yuan, Ke-Hai A theorem on uniform convergence of stochastic functions with applications. (English summary) **99e:62026**
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Barbe, Philippe Statistical analysis of mixtures and the empirical probability measure. (English summary) **99f:62050**
— (*with* Doisy, M.; Garel, B.) Last passage time for the empirical mean of some mixing processes. (English summary) **99j:60030**
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— (*with* Ritov, Ya'acov; Rydén, Tobias) Asymptotic normality of the maximum-likelihood estimator for general hidden Markov models. (English summary) **99j:62120**
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Chaganty, Narasinga R. An alternative approach to the analysis of longitudinal data via generalized estimating equations. (English summary) **99c:62198**
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Dietz, Hans M. (*with* Kutoyants, Yurii) A class of minimum-distance estimators for diffusion processes with ergodic properties. (English summary) **99b:62126**
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Falk, Michael Local asymptotic normality of truncated empirical processes. (English summary) **99c:62046**
Francq, Christian (*with* Roussignol, Michel) On white noises driven by hidden Markov chains. (English summary) **99c:62237**
Fraser, Donald A. S. (*with* Wong, A. C. M.) On the accuracy of approximate Studentization. (English summary) **99g:62008**
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Huebner, Marianne A characterization of asymptotic behaviour of maximum likelihood estimators for stochastic PDE's. (English summary) **99f:62102**
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Jukić, D. (*with* Scitovski, R.) Existence results for special nonlinear total least squares problem. (English summary) **99m:65024**
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Lee, Kwan Jeh On Bahadur efficiency and Bartlett adjustability of quasi-LRT statistics. (English summary) **99i:62033**
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— (*with* Khan, Abdul Hamid) Concomitants of order statistics from bivariate Burr distribution. (English summary)
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Kaufmann, Edgar (*with* Reiss, R.-D.) Approximation of the Hill estimator process. (English summary) **99j:60067**
Khan, Abdul Hamid (*with* Zafar, Asim) Prediction and estimation in exponential failure model. (English summary) **99k:62190**
Koltchinskiĭ, Vladimir I. Nonlinear transformations of empirical processes: functional inverses and Bahadur-Kiefer representations. (English summary) **99f:60047**
Kozubowski, Tomasz J. (*with* Panorska, Anna K.) Weak limits for multivariate random sums. (English summary) **99j:60025**
Kudlaev, E. M. On the most powerful location and scale invariant tests based on an incomplete set of order statistics. **99g:62059**
Lahiri, Soumendra Nath *see* **Athreya, Krishna B.; et al., 99d:62027**
Laurent-Bonvalot, Françoise *see* **Castelle, Nathalie, 99h:60071**
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Li, Yun (*with* Pakes, Anthony G.) On the number of near-records after the maximum observation in a continuous sample. (English summary) **99d:60056**
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Malov, S. V. Random variables generated by ranks in dependent schemes. (English summary) **99k:60135**
Marohn, Frank An adaptive efficient test for Gumbel domain of attraction. (English summary) **99i:62034**
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Matuła, Przemysław Probability and moment bounds for sums of negatively associated random variables. (English summary) **99h:60033**
Mirakhmedov, Sh. A. (*with* Kalandarov, U.) The non-uniform bounds of remainder term in CLT for the sum of functions of uniform spacings. (English summary) **99d:60027**
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Nagaraja, H. N. (*with* Nevzorov, V. B.) On characterizations based on record values and order statistics. (English summary) **99c:62031**
Nayak, S. S. (*with* Wali, K. S.) Almost sure limit points of extremes of samples from two independent populations. (English summary) **99m:60078**
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Vynckier, P. *see* **Beirlant, J.; et al., 99d:60055**
Wali, K. S. *see* **Nayak, S. S., 99m:60078**
Wang, Hong[6] Generalized zero-one laws for large-order statistics. (English summary) **99c:60075**
Wu, Jong-Wuu (*with* Lee, Wen-Chuan) Characterization of generalized mixtures of exponential distribution based on conditional expectation of order statistics. (English summary) **99k:62030**
Wu, Wei[4] *see* **Athreya, Krishna B.; et al., 99d:62027**
Yun, Seokhoon Asymptotic properties of upper spacings. (English summary) **99a:60023**
Zafar, Asim *see* **Khan, Abdul Hamid, 99k:62190**
Zhou, Yong[2] A note on quantile estimator of the perturbed empirical distribution function. (English and Chinese summaries) **99c:62125**

62G35 Robustness

Items with secondary classifications in 62G35

Basu, Sanjib[2] Variations of posterior expectations for symmetric unimodal priors in a distribution band. (English summary) **99m:62032**
— (*with* Jammalamadaka, Sreenivasa Rao; Liu, Wei) Stability and infinitesimal robustness of posterior distributions and posterior quantities. (English summary) **99m:62011**
Jammalamadaka, Sreenivasa Rao *see* **Basu, Sanjib[2]; et al., 99m:62011**
Krug, B. Reweighted loglikelihood method in robust estimation in a mixed unbalanced model. (English summary) **99i:62148**
Liu, Wei *see* **Basu, Sanjib[2]; et al., 99m:62011**

62G99 None of the above, but in this section

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Mallick, Bani K. *see* **Walker, Stephen Graham, 99d:62057**
Mudholkar, Govind S. (*with* Hutson, Alan D.) Hermitian quantile curves as statistical plots. (English summary)
Niinimaa, A. Bivariate generalizations of the median. (English summary) (*see* **99g:62004**)
Rousseeuw, Peter J. (*with* Ruts, Ida) Constructing the bivariate Tukey median. (English summary)
Ruts, Ida *see* **Rousseeuw, Peter J.**
Walker, Stephen Graham (*with* Mallick, Bani K.) A note on the scale parameter of the Dirichlet process. (English and French summaries) **99d:62057**
Yu, Philip L. H. (*with* Lam, Kin) Analysis of duplicate bridge tournament data. (English summary) **99d:62058**

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Barndorff-Nielsen, Ole E. (*with* Jupp, Peter E.) Statistics, yokes and symplectic geometry. (English and French summaries) **99e:58066**
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Guglielmi, Alessandra A simple procedure calculating the generalized Stieltjes transform of the mean of a Dirichlet process. (English summary) **99e:60049**
Haussler, David (*with* Opper, Manfred) Metric entropy and minimax risk in classification. (English summary) **99d:68217**
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Malyutov, M. B. (*with* Sadaka, H. A.) Non-parametric search for significant variables of a linear model. (English summary) **99i:62162**
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Rio, Emmanuel Strong approximation for set-indexed partial sum processes via KMT constructions. III. (English summary) **99b:60049**
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Silliman, Nancy Paul Nonparametric classes of weight functions to model publication bias. (English summary) **99c:62068**
Speed, F. Michael (*with* Spiegelman, Clifford) Evaluating black boxes: an ad-hoc method for assessing nonparametric and nonlinear curve-fitting estimators. (English summary)
Spiegelman, Clifford *see* **Speed, F. Michael**
Vidyasagar, Mathukumalli An introduction to some statistical aspects of PAC learning theory. (English summary) **99d:68215**

62Hxx Multivariate analysis [see also 60Exx]

62H05 Characterization and structure theory

Andersson, Steen A. (*with* Madigan, David; Perlman, Michael D.) A characterization of Markov equivalence classes for acyclic digraphs. (English summary) **99a:62076**
Balakrishnan, Narayanaswamy (*with* Johnson, Norman Lloyd[2]; Kotz, Samuel) A note on relationships between moments, central moments and cumulants from multivariate distributions. (English summary)
Block, H. W. (*with* Chhetry, D.; Fang, Zhao Ben; Sampson, Allan R.) Metrics on permutations useful for positive dependence. (English summary) **99k:62106**
Boik, Robert J. A local parameterization of orthogonal and semi-orthogonal matrices with applications. (English summary) **99k:62107**
Chhetry, D. *see* **Block, H. W.; et al., 99k:62106**
Cuesta-Albertos, J. A. (*with* Gordaliza, A.; Matrán, C.) On the geometric behaviour of multidimensional location measures. (English summary) **99f:62069**
Fábián, Csaba Statistical characterization of defective sections in a length of fiberglass. (Hungarian. English summary)
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Ghoudi, Kilani (*with* Khoudraji, Abdelhaq; Rivest, Louis-Paul) Propriétés statistiques des copules de valeurs extrêmes bidimensionnelles. (English and French summaries) [Statistical properties of copulas of two-dimensional extrema] **99b:62091**
Gordaliza, A. *see* **Cuesta-Albertos, J. A.; et al., 99f:62069**
Gupta, Arjun K. (*with* Nguyen, Truc T.; Zeng, Wei-Bin) Characterization of multivariate distributions through a functional equation of their characteristic functions. (English summary) **99f:62070**
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Käärik, E. (*with* Tiit, E.-M.) Arrays of multivariate statistics and their representation. (English summary) **99h:62069**
Karma, O. On the calculations with the indexized sets of data. (English summary) **99h:62070**
Khoudraji, Abdelhaq *see* **Ghoudi, Kilani; et al., 99b:62091**
Kollo, Tõnu (*with* Neudecker, Heinz) The derivative of an orthogonal matrix of eigenvectors of a symmetric matrix. (English summary) **99g:62070**
— (*with* von Rosen, Dietrich) A unified approach to the approximation of multivariate densities. (English summary) **99k:62108**
Koshevoĭ, G. A. (*with* Mosler, Karl) Zonoid trimming for multivariate distributions. (English summary) **99c:62151**
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Kowalczyk, Teresa Properties of the standard concepts of monotone dependence based on separation curves. (English summary) **99b:62092**
Letac, Gérard The retrieval of a rotation invariant distribution of (X, Y) from $\mathbf{E}(X^2|Y)$. (English summary) **99c:62152**
— (*with* Massam, Hélène) Quadratic and inverse regressions for Wishart distributions. (English summary) **99f:62071**

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Pommeret, Denys Multidimensional Bhattacharyya matrices and exponential families. (English summary) **99c:62153**
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Somerville, Paul N. Numerical computation of multivariate normal and multivariate-t probabilities over convex regions. (English summary) **99i:62119**
Szabłowski, Paweł J. Uniform distributions on spheres in finite-dimensional L_α and their generalizations. (English summary) **99e:62093**
Teugels, Jozef L. (*with* Van Horebeek, Johan) Generalized graphical models for discrete data. (English summary) **99h:62071**
Tiit, E.-M. *see* **Käärik, E., 99h:62069**
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Balakrishnan, Narayanaswamy *see* **Johnson, Norman Lloyd[2]; et al., 99h:62014**
Chistyakov, G. P. (*with* Pergamentsev, S. Yu.) Some extensions of the Darmois-Skitovich and Kagan theorems to classes of the generalized random variables. (English, Russian and Ukrainian summaries) **99a:62014**
Fang, Hong Bin *see* **von Rosen, Dietrich; et al., 99c:62159**
Fang, Kai-Tai *see* **Kotz, Samuel; et al., 99a:62006** *and* **von Rosen, Dietrich; et al., 99c:62159**
Fernández Llana, Carmen (*with* Osiewalski, Jacek; Steel, Mark F. J.) Classical and Bayesian inference robustness in multivariate regression models. (English summary) **99b:62100**
Fredricks, Gregory A. (*with* Nelsen, Roger B.) Copulas constructed from diagonal sections. (English summary) **99c:60021**
— *see also* **Nelsen, Roger B., 99a:60011**
Gupta, Rameshwar D. (*with* Richards, Donald St. P.) Multivariate Liouville distributions. V. (English summary) **99c:60022**
Johnson, Norman Lloyd[2] (*with* Kotz, Samuel; Balakrishnan, Narayanaswamy) ★ Discrete multivariate distributions. (English summary) **99h:62014**
Jones, Michael C. Constant local dependence. (English summary) **99c:62162**
Kotz, Samuel (*with* Fang, Kai-Tai; Liang, Jia-Juan) On multivariate vertical density representation and its application to random number generation. (English summary) **99a:62006**
— *see also* **Johnson, Norman Lloyd[2]; et al., 99h:62014**
Kozubowski, Tomasz J. (*with* Panorska, Anna K.) Weak limits for multivariate random sums. (English summary) **99j:60025**
LaMotte, Lynn Roy *see* **Volaufová, Júlia, 99g:62005**
Letac, Gérard The Lancaster's probabilities on $\mathbf{R}^2$ and their extreme points. (English summary) **99a:60008**
Li, Xin[3] (*with* Mikusiński, Piotr; Sherwood, H.; Taylor, M. D.) On approximation of copulas. (English summary) **99a:60009**
Liang, Jia-Juan *see* **Kotz, Samuel; et al., 99a:62006**
Ma, Chunsheng Characteristic properties of multivariate survival functions in terms of residual life distributions. (English summary) **99k:62028**
Mikusiński, Piotr *see* **Li, Xin[3]; et al., 99a:60009**
Nelsen, Roger B. (*with* Fredricks, Gregory A.) Diagonal copulas. (English summary) **99a:60011**
— ★ An introduction to copulas. (English summary) **99i:60028**
— *see also* **Fredricks, Gregory A., 99c:60021**
Oktaba, Wiktor Characterization of the multivariate Gauss-Markoff model with singular covariance matrix and missing values. (English summary) **99d:62069**
Osiewalski, Jacek *see* **Fernández Llana, Carmen; et al., 99b:62100**
Panorska, Anna K. *see* **Kozubowski, Tomasz J., 99j:60025**
Pergamentsev, S. Yu. *see* **Chistyakov, G. P., 99a:62014**
Pronzato, Luc On a property of the expected value of a determinant. (English summary) **99k:62138**
Richards, Donald St. P. *see* **Gupta, Rameshwar D., 99c:60022**
Rolle, Jean-Daniel A model for perturbed production or measurement processes involving compound normal distributions. (English summary)
von Rosen, Dietrich (*with* Fang, Hong Bin; Fang, Kai-Tai) An extension of the complex normal distribution. (English summary) **99c:62159**
Rousseeuw, Peter J. (*with* Ruts, Ida) Constructing the bivariate Tukey median. (English summary)
Rüschendorf, Ludger (*with* Uckelmann, Ludger) On optimal multivariate couplings. (English summary) **99a:90234**
Ruts, Ida *see* **Rousseeuw, Peter J.**
Seshadri, Vanamamalai A property of natural exponential families in $\mathbf{R}^n$ with simple quadratic variance functions. (English summary) **99c:62035**
Sherwood, H. *see* **Li, Xin[3]; et al., 99a:60009**
Steel, Mark F. J. *see* **Fernández Llana, Carmen; et al., 99b:62100**
Stępniak, Czesław Comparison of normal linear experiments by quadratic forms. (English summary) **99h:62007**
Taylor, M. D. *see* **Li, Xin[3]; et al., 99a:60009**
Uckelmann, Ludger Optimal couplings between one-dimensional distributions. (English summary) **99a:60012**
— *see also* **Rüschendorf, Ludger, 99a:90234**
Volaufová, Júlia (*with* LaMotte, Lynn Roy) A note on invariant quadratics. **99g:62005**

62H10 Distribution of statistics

Anderson, T. W. (*with* Laake, Petter) Exact and approximate distributions of the maximum likelihood estimate in a simple factor analysis model. (English summary) **99e:62094**
Bar-Hen, Avner (*with* Daudin, Jean J.) Asymptotic distribution of Matusita's distance: application to the location model. (English summary) **99h:62072**
Boček, Pavel *see* **Tichavský, Petr, 99i:62122**
Butler, Ronald W. Generalized inverse Gaussian distributions and their Wishart connections. (English summary) **99g:62071**
Cao, Zhen Hua The variance of quadratic forms with block matrices. (Chinese. English and Chinese summaries)
(Chang, Kwang-Chow) *see* **Errata: "An alternative proof for a known result of noncentral Wishart distribution"**
Cui, Hengjian *see* **Qin, Huaizhen; et al., 99d:62060**
Daudin, Jean J. *see* **Bar-Hen, Avner, 99h:62072**
Díaz-García, José A. (*with* Gutiérrez Jáimez, Ramón; Mardia, Kanti V.) Wishart and pseudo-Wishart distributions and some applications to shape theory. (English summary) **99e:62095**
Ernst, Michael Duane A multivariate generalized Laplace distribution. (English summary)
Glueck, Deborah H. (*with* Muller, Keith E.) On the trace of a Wishart. (English summary)
Gupta, Arjun K. (*with* Kabe, D. G.) A note on the characteristic functions of spherical matrix distributions. (English summary) **99c:62154**
— Multivariate elliptically contoured and θ-generalized normal models. (English summary) **99m:62080**
— (*with* Nagar, Daya K.) Quadratic forms in disguised matrix T-variate. (English summary) **99k:62109**
Gutiérrez Jáimez, Ramón *see* **Díaz-García, José A.; et al., 99e:62095**
Harville, David A. (*with* Kempthorne, Oscar) An alternative way to establish the necessity part of the classical result on the statistical independence of quadratic forms. (English summary) **99c:62155**
Jensen, D. R. Bounds on Mahalanobis norms and their applications. (English summary) **99d:62059**
Kabe, D. G. *see* **Gupta, Arjun K., 99c:62154**
Kempthorne, Oscar *see* **Harville, David A., 99c:62155**
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(Lee, Tian Shyug) *see* **Errata: "An alternative proof for a known result of noncentral Wishart distribution"**
Li, Yong[7] *see* **Qin, Huaizhen; et al., 99d:62060**
Lisitskiĭ, A. D. The Eaton problem and multiplicative properties of multidimensional distributions. (Russian. Russian summary) **99e:62096**
Mardia, Kanti V. *see* **Díaz-García, José A.; et al., 99e:62095**
Muller, Keith E. *see* **Glueck, Deborah H.**
Nagar, Daya K. *see* **Gupta, Arjun K., 99k:62109** *and* **Tayal, Vipin**
Neudecker, Heinz *see* **Satorra, Albert, 99e:62097**
Olkin, Ingram The density of the inverse and pseudo-inverse of a random matrix. (English summary) **99i:62120**
— *see also* **Viana, Marlos, 99e:62099**
Qin, Huaizhen (*with* Cui, Hengjian; Li, Yong[7]) The N.S. conditions for the ratio of two quadratic forms to have an F-distribution and its applications. (English summary) **99d:62060**
von Rosen, Dietrich *see* **Srivastava, Muni S., 99i:62121**
Satorra, Albert (*with* Neudecker, Heinz) Compact matrix expressions for generalized Wald tests of equality of moment vectors. (English summary) **99e:62097**
Srivastava, Muni S. (*with* von Rosen, Dietrich) Outliers in multivariate regression models. (English summary) **99i:62121**
Takemura, Akimichi (*with* Kuriki, Satoshi) Weights of $\bar{\chi}^2$ distribution for smooth or piecewise smooth cone alternatives. (English summary) **99c:62156**
Tayal, Vipin (*with* Nagar, Daya K.) Distribution of the determinant of a noncentral complex Wishart matrix. (English summary)
— Exact non-null distribution of LRC for testing homogeneity of covariance matrices of completely symmetric Gaussian models. (English summary)
Tichavský, Petr (*with* Boček, Pavel) Detection of influential points by convex hull volume minimization. (English summary) **99i:62122**
Tiit, E.-M. Mixture of extremal distributions—a model alternative to the log-linear model. (English summary) **99e:62098**
Viana, Marlos (*with* Olkin, Ingram) Correlation analysis of ordered observations from a block-equicorrelated multivariate normal distribution. (English summary) **99e:62099**
Zhang, Jian[1] Data sphering: some properties and applications. (English summary) **99m:62081**

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Errata:
"An alternative proof for a known result of noncentral Wishart distribution" Correction: "An alternative proof for a known result of noncentral Wishart distribution" [Probab. Engrg. Inform. Sci. **11** (1997), no. 4, 523–529] by T.-S. Lee and K.-C. Chang.

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Al-Awadhi, Shafeeqah A. (*with* Garthwaite, Paul H.) An elicitation method for multivariate normal distributions. (English summary) **99a:62033**
Cheong, Young-Ho *see* **Provost, Serge B., 99e:62017**
Fernández Llana, Carmen (*with* Steel, Mark F. J.) Multivariate Student-t regression models: pitfalls and inference. (English summary) **99m:62098**
Fujikoshi, Yasunori Error bounds for asymptotic expansions of the distributions of the classification statistic W and related statistics. (English summary) **99h:62083**
Gao, Hongsheng (*with* Smith, Peter Jeffry) Some bounds on the distribution of certain quadratic forms in normal random variables. (English summary) **99j:62011**
Garthwaite, Paul H. *see* **Al-Awadhi, Shafeeqah A., 99a:62033**
Girko, Vyacheslav L. Canonical spectral equation for the eigenvalues of empirical covariance matrices. (English summary) **99e:60098**
Groß, Jürgen A note on the rank-subtractivity ordering. (English summary) **99k:15029**

Kakizawa, Yoshihide Higher-order Bartlett-type adjustment. (English summary) **99i:62030**
Kollo, Tõnu (*with* Neudecker, Heinz) The derivative of an orthogonal matrix of eigenvectors of a symmetric matrix. (English summary) **99g:62070**
— (*with* von Rosen, Dietrich) A unified approach to the approximation of multivariate densities. (English summary) **99k:62108**
Marsh, Patrick W. N. Saddlepoint approximations for noncentral quadratic forms. (English summary) **99e:62019**
Minami, Mihoko Multivariate Lagrange distributions and a subfamily. (English summary) **99g:62015**
Neudecker, Heinz *see* **Kollo, Tõnu, 99g:62070**
Provost, Serge B. (*with* Cheong, Young-Ho) The probability content of cones in isotropic random fields. (English summary) **99e:62017**
Riani, Marco (*with* Zani, Sergio) Generalized distance measures for asymmetric multivariate distributions. (English summary) (*see* **99k:62003**)
von Rosen, Dietrich On moments of the inverted Wishart distribution. (English summary) **99a:60017**
— *see also* **Kollo, Tõnu, 99k:62108**
See, Kyoungah On asymptotic tests in three-factor factorial designs with no replications. (English summary) **99m:62117**
Smith, Peter Jeffry *see* **Gao, Hongsheng, 99j:62011**
Steel, Mark F. J. *see* **Fernández Llana, Carmen, 99m:62098**
Sugiyama, Takakazu *see* **Tsukada, Shin-ichi, 99g:62080**
Szabłowski, Paweł J. Uniform distributions on spheres in finite-dimensional L_α and their generalizations. (English summary) **99e:62093**
Tsukada, Shin-ichi (*with* Sugiyama, Takakazu) On the distributions of likelihood ratio criterion for equality of characteristic vectors in two populations. (English summary) **99g:62080**
Yokoyama, Takahisa Tests for a family of random-effects covariance structures in a multivariate growth curve model. (English summary) **99j:62081**
Zani, Sergio *see* **Riani, Marco, (99k:62003)**

62H11 Directional data; spatial statistics

Cerioli, Andrea Analysis of binary variables observed at an irregular network of spatial locations. (English and Italian summaries)
Chakraborty, Biman (*with* Chaudhuri, Probal; Oja, Hannu) Operating transformation retransformation on spatial median and angle test. (English summary) **99f:62072**
Chan, A. (*with* Meloche, J.) Image restoration. (English summary) **99g:62072**
Chaudhuri, Probal *see* **Chakraborty, Biman; et al., 99f:62072**
Chikuse, Yasuko Density estimation on the Stiefel manifold. (English summary) **99i:62123**
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Johnson, Richard A. *see* **Sim, Songyong, 99i:62125**
Jupp, Peter E. Some applications of directional statistics to astronomy. (English summary) **99h:62073**
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Meloche, J. *see* **Chan, A., 99g:62072**
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62H12 Estimation

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Ahmed, S. E. Large-sample estimation strategies for eigenvalues of a Wishart matrix. (English summary) **99g:62073**
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Andersson, Steen A. (*with* Madsen, Jesper) Symmetry and lattice conditional independence in a multivariate normal distribution. (English summary) **99g:62074**
— (*with* Perlman, Michael D.) Normal linear regression models with recursive graphical Markov structure. (English summary) **99i:62126**
Averous, Jean (*with* Meste, Michel) Median balls: an extension of the interquantile intervals to multivariate distributions. (English summary) **99k:62111**
Bentler, Peter M. *see* **Berkane, Maia; et al., 99k:62112**
Berger, James O. (*with* Philippe, Anne; Robert, Christian P.) Estimation of quadratic functions: noninformative priors for non-centrality parameters. (English summary) **99e:62101**
Berkane, Maia (*with* Oden, Kevin; Bentler, Peter M.) Geodesic estimation in elliptical distributions. **99k:62112**
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Chakraborty, Biman (*with* Chaudhuri, Probal) On an adaptive transformation-retransformation estimate of multivariate location. (English summary) **99a:62077**
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Chen, Jian Bao (*with* Deng, Qi Rong) All admissible linear estimators of functions of the mean matrix in multivariate linear models. (Chinese. English and Chinese summaries) **99g:62075**
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Dümbgen, Lutz Perturbation inequalities and confidence sets for functions of a scatter matrix. (English summary) **99d:62061**
Fang, Hong Bin *see* **von Rosen, Dietrich; et al., 99c:62159**
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Fourdrinier, Dominique (*with* Strawderman, William E.; Wells, Martin T.) On the construction of Bayes minimax estimators. (English summary) **99e:62102**
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— *see also* **Takada, Yoshikazu, 99c:62225**
Beran, Rudolf Stein estimation in high dimensions: a retrospective. (English summary) **99e:62009**
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Chen, Jeesen A general lower bound of minimax risk for absolute-error loss. (English and French summaries) **99d:62005**
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Cragg, John G. (*with* Donald, Stephen G.) Inferring the rank of a matrix. (English summary) **99g:62151**
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Liu, Jian[3] (*with* Wu, Shiying; Zidek, James V.) On segmented multivariate regression. (English summary) **99b:62063**
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62H15 Hypothesis testing

Aich, A. B. *see* **Nandi, S. B.**
Bhatti, M. Ishaq *see* **Zhu, Li-Xing; et al., 99e:62106**
Bhaumik, Dulal K. (*with* Shah, Arvind K.) Exact tests in crossover designs. (English summary) (*see* **99f:62005**)
Caliński, Tadeusz (*with* Lejeune, Michel) Dimensionality in MANOVA tested by a closed testing procedure. (English summary) **99i:62129**
Chi, E. M. (*with* Weerahandi, S.) Comparing treatments under growth curve models: exact tests using generalized p-values. (English summary) **99f:62074**
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Fang, Kai-Tai (*with* Li, Run-Ze; Liang, Jia-Juan) A multivariate version of Ghosh's T_3-plot to detect non-multinormality. (English summary) **99j:62079**
— *see also* **Zhu, Li-Xing; et al., 99e:62106** *and* **(99g:62004)**
Fujisawa, Hironori Efficient tests for mean structure in random effects models. (English summary) **99h:62076**
Hristea, Florentina An algorithm for the detection of outliers in the case of the normal distribution. (English summary) **99i:62130**
Kharin, Yu. S. (*with* Stalevskaya, S. N.) On the stability of multivariate linear regression forecasting. (Russian. English and Russian summaries) **99m:62085**
Koltchinskii, Vladimir I. (*with* Li, Lang) Testing for spherical symmetry of a multivariate distribution. (English summary) **99e:62105**
Kuriki, Satoshi *see* **Takemura, Akimichi, (99a:62005)**
Lejeune, Michel *see* **Caliński, Tadeusz, 99i:62129**
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Li, Run-Ze *see* **Fang, Kai-Tai; et al., 99j:62079**
Liang, Jia-Juan *see* **Fang, Kai-Tai; et al., 99j:62079**
McDermott, Michael P. *see* **Wang, Yining, 99j:62080**
Nandi, S. B. (*with* Aich, A. B.) A note on testing hypothesis regarding $P(X > Y)$ in bivariate normal samples. (English summary)
Oh, Man-Suk A Bayes test for simple versus one-sided hypothesis on the mean vector of a multivariate normal distribution. (English summary) **99f:62075**
Pesarin, Fortunato An almost exact solution for the multivariate Behrens-Fisher problem. (English and Italian summaries)
Shah, Arvind K. *see* **Bhaumik, Dulal K., (99f:62005)**
Stalevskaya, S. N. *see* **Kharin, Yu. S., 99m:62085**
Steinebach, Josef (*with* Eastwood, Vera R.) Detecting changes in a multivariate renewal process. (English summary) **99d:62064**
Sugiura, Nariaki Exact powers of classical tests for bivariate linear hypotheses. (English summary) **99k:62116**
Sugiyama, Takakazu (*with* Ushizawa, Kenji) A non-parametric method to test equality of intermediate latent roots of two populations in a principal component analysis. (English summary) **99k:62117**
— *see also* **Tsukada, Shin-ichi, 99g:62080**
Takemura, Akimichi (*with* Kuriki, Satoshi) Weights of $\bar{\chi}^2$ distribution for smooth or piecewise smooth cone alternatives. (English summary) (*see* **99a:62005**)
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Tsukada, Shin-ichi (*with* Sugiyama, Takakazu) On the distributions of likelihood ratio criterion for equality of characteristic vectors in two populations. (English summary) **99g:62080**
— Three statistics for hypothesis testing of intermediate latent vector of covariance matrix and their bootstrap tests. (English summary) **99m:62086**
Ushizawa, Kenji *see* **Sugiyama, Takakazu, 99k:62117**
Wang, Yining (*with* McDermott, Michael P.) A conditional test for a non-negative mean vector based on a Hotelling's T^2-type statistic. (English summary) **99j:62080**
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Ye, A Zhong An inner bound for the achievable rate region in hypothesis testing. (Chinese. English and Chinese summaries)
Yokoyama, Takahisa Tests for a family of random-effects covariance structures in a multivariate growth curve model. (English summary) **99j:62081**
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Jing, Ping Tests of covariance matrix by using projection pursuit and bootstrap method. (English summary) **99g:62088**
Kim, Gie-Whan Exact slopes of test statistics for the multivariate exponential family. (English summary) **99h:62016**
Kubáček, Lubomír *see* **Kubáčková, Ludmila, 99c:62184**
Kubáčková, Ludmila (*with* Kubáček, Lubomír) Estimation in multiepoch regression models with different structures for studying recent crustal movements. (English summary) **99c:62184**
Kulatunga, D. D. Sarath *see* **Sasabuchi, Syoichi; et al., (99f:62009)**
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Möttönen, Jyrki (*with* Hettmansperger, Thomas P.; Oja, Hannu; Tienari, J.) On the efficiency of affine invariant multivariate rank tests. (English summary) **99j:62067**
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Tienari, J. *see* **Möttönen, Jyrki; et al., 99j:62067**
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Zhu, Li-Xing *see* **Fang, Kai-Tai; et al., 99g:62087**

62H17 Contingency

Ahmad, Rashid *see* **Kateri, Maria; et al.**
Banerjee, Tathagata *see* **Paul, S. R., 99j:62084**
Bayrak, Hülya (*with* Oral Erbas, Semra) Different patterns with zero partial association for five variables in contingency tables. (English summary) **99j:62082**
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Lai, Sheng Han (*with* Yang, Zi Qiang) A leaping subsequence algorithm for exact inference of contingency tables. (Chinese. English summary)
Lapp, Krista (*with* Molenberghs, Geert; Lesaffre, Emmanuel) Models for the association between ordinal variables. (English summary)
Leblanc, Raymond (*with* Shapiro, Stanley H.) Information theory and the noncentral hypergeometric distribution. (English summary) **99i:62132**
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Park, Cheolyong The chi-squared test of independence for a multi-way contingency table with all margins fixed. (English summary) **99i:62134**
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Hernek, Diane Random generation of $2 \times n$ contingency tables. (English summary) **99c:60142**
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Choi, Kyungmee (*with* Marden, John I.) A multivariate version of Kendall's τ. (English summary) **99e:62109**
Dauxois, Jacques (*with* Nkiet, G. M.) Canonical analysis of two Euclidean subspaces and its applications. (English summary) **99a:62079**

Dedieu, Jean-Pierre Condition number analysis for sparse polynomial systems. (English summary) **99j:62085**
D'Urso, Pierpaolo (*with* Vichi, Maurizio) Dissimilarities between trajectories of a three-way longitudinal data set. (English summary) (*see* **99k:62003**)
Guo, Jiin-Huarng Developing a weighted sum statistic of z-transformation correlation coefficients with a blocking variable. (English summary)
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Jones, Michael C. Constant local dependence. (English summary) **99c:62162**
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Nakagawa, Shigekazu (*with* Niki, Naoto; Hashiguchi, Hiroki) Computer algebra application to the distribution of sample correlation coefficient. (English summary) **99a:62080**
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Cuadras, C. M. Increasing the correlations with the response variable may not increase the coefficient of determination: a PCA interpretation. (English summary) (*see* **99g:62004**)
Dey, Dipak K. (*with* Lou, Kou-Ren) Bayesian robustness using local divergence and signal-to-noise ratio. (English summary) (*see* **99j:62001**)
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62H25 Factor analysis and principal components; correspondence analysis

ten Berge, Jos M. F. Some recent developments in factor analysis and the search for proper communalities. (English summary) (*see* **99k:62003**)
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Girard, Stéphane (*with* Chalmond, Bernard; Dinten, Jean-Marc) Position of principal component analysis among auto-associative composite models. (English and French summaries) **99k:62121**
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Rao, Calyampudi Radhakrishna Principal component and factor analyses. **99h:62078**
Salinelli, Ernesto Nonlinear principal components. I. Absolutely continuous random variables with positive bounded densities. (English summary) **99i:62138**
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62H30 Classification and discrimination; cluster analysis [see also 68T10]

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Bagui, Subhash C. (*with* Mehra, K. L.; Vaughn, Brandon K.) An M-stage version of the k-RNN rule in statistical discrimination. (English summary) **99h:62080**
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62Jxx Linear inference, regression

62J02 General nonlinear regression

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62J07 Ridge regression; James-Stein estimators

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Botter, Denise A. (*with* Cordeiro, Gauss M.) Improved estimators for generalized linear models with dispersion covariates. (English summary) **99k:62135**
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Heumann, Christian ★ Likelihoodbasierte marginale Regressionsmodelle für korrelierte kategoriale Daten. (German. German summary) [Likelihood-based marginal regression models for correlated categorial data] **99g:62100**
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Atkinson, Anthony C. (*with* Haines, Linda M.) Designs for nonlinear and generalized linear models. (*see* **99f:62002**)
Cameron, A. Colin (*with* Trivedi, Pravin K.) ★ Regression analysis of count data. (English summary) **99m:62002**
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Ibrahim, Joseph G. (*with* Kleinman, Kenneth P.) Semiparametric Bayesian methods for random effects models. (English summary) **99d:62035**
Ichimura, Hidehiko (*with* Thompson, T. Scott) Maximum likelihood estimation of a binary choice model with random coefficients of unknown distribution. (English summary) **99m:62162**
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Shen, Xiaotong Proportional odds regression and sieve maximum likelihood estimation. (English summary) **99h:62039**
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Thamerus, Markus Different nonlinear regression models with incorrectly observed covariates. (English summary) (*see* **99f:62007**)
Thompson, T. Scott *see* **Ichimura, Hidehiko**, **99m:62162**
Tjur, Tue Nonlinear regression, quasi likelihood, and overdispersion in generalized linear models. (English summary) **99g:62089**
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Tutz, Gerhard (*with* Kauermann, Göran) Locally weighted least squares in categorical varying-coefficient models. (English summary) (*see* **99f:62007**)

62J15 Paired and multiple comparisons

Chaganty, Narasinga R. (*with* Vaish, Akhil K.) On inequalities for outlier detection in statistical data analysis. (English summary) **99f:62085**
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Holm, Sture Estimation and multiple comparisons when there are missing values with an application in immunology. (English summary) **99e:62126**
Horn, Manfred (*with* Vollandt, Rüdiger) Sample sizes for comparisons of k treatments with a control based on different definitions of the power. (English summary)
Hsu, Jason C. ★ Multiple comparisons. (English summary) **99g:62102**
Nakayama, Marvin K. Multiple-comparison procedures for steady-state simulations. (English summary) **99b:62110**
Tamhane, Ajit C. Multiple comparisons. (*see* **99f:62002**)
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Wu, Shu-Fei (*with* Chen, Hubert J.) Multiple comparisons with the average for normal distributions. (English summary) (*see* **99f:62009**)

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Berry, Donald A. *see* **Gopalan, Ramanan**
Dean, Angela M. (*with* Wolfe, Douglas A.) Nonparametric analysis of experiments. (*see* **99f:62002**)
Gopalan, Ramanan (*with* Berry, Donald A.) Bayesian multiple comparisons using Dirichlet process priors. (English summary)
Hastie, Trevor (*with* Tibshirani, Robert J.) Classification by pairwise coupling. (English summary) **99e:62113**
Sen, Pranab Kumar[1] Design and analysis of experiments: nonparametric methods with applications to clinical trials. (*see* **99f:62002**)
Tibshirani, Robert J. *see* **Hastie, Trevor**, **99e:62113**
Wolfe, Douglas A. *see* **Dean, Angela M.**, (**99f:62002**)

62J20 Diagnostics

Banerjee, Mousumi Cook's distance in linear longitudinal models. (English summary) **99k:62136**
Wei, Bo-Cheng *see* **Zong, Xu Ping**
Zong, Xu Ping (*with* Wei, Bo-Cheng) Influence analysis on linear models with random effects. (English summary)

Items with secondary classifications in 62J20

Cook, R. Dennis (*with* Croos-Dabrera, Rodney) Partial residual plots in generalized linear models. (English summary) **99c:62199**
Croos-Dabrera, Rodney *see* **Cook, R. Dennis**, **99c:62199**
Holt, William (*with* Refenes, Paul) The Durbin-Watson test for neural regression models. (English summary) **99k:62125**
Jarušková, Daniela Testing appearance of linear trend. (English summary) **99j:62022**
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Víšek, Jan Ámos Diagnostics of regression subsample stability. (English summary) **99c:62193**

62J99 None of the above, but in this section

Arellano-Valle, Reinaldo B. *see* **Bolfarine, Heleno**, **99j:62105**
Bolfarine, Heleno (*with* Arellano-Valle, Reinaldo B.) Weak nondifferential measurement error models. (English summary) **99j:62105**
Draper, Norman R. Applied regression analysis bibliography update 1994–97. (English summary)
Lagona, Francesco Linear structural dependence of degree one among data: a statistical model. (English summary) **99j:62106**
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Malyutov, M. B. (*with* Sadaka, H. A.) Non-parametric search for significant variables of a linear model. (English summary) **99i:62162**
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Sadaka, H. A. *see* **Malyutov, M. B.**, **99i:62162**
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Téchené, Jean-Jacques Les aspects fondamentaux de l'admissibilité en approximation quadratique d'applications linéaires. (English summary) [Fundamental aspects of admissibility in the quadratic approximation of linear mappings] **99c:62200**
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Fukushima, Júlia T. (*with* Moran, Regina C. C. P.; Vlachonikolis, Ioannis G.) On the distribution of quadratic forms and applications in the analysis of repeated measurements. (English summary) **99i:62024**
Liu, Jian[3] (*with* Wu, Shiying; Zidek, James V.) On segmented multivariate regression. (English summary) **99b:62063**
Moran, Regina C. C. P. *see* **Fukushima, Júlia T.; et al.**, **99i:62024**
Palta, M. (*with* Qu, R. P.) Testing lack of fit in mixed effect models for longitudinal data. (English summary) (*see* **99g:62004**)
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62Kxx Experimental design [see also 05Bxx]

(Droesbeke, Jean-Jacques) *see* **Experimental designs**, **99a:62101**
(Fine, Jeanne) *see* **Experimental designs**, **99a:62101**
(Saporta, Gilbert) *see* **Experimental designs**, **99a:62101**

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Conference:
Statistical Studies ★ Plans d'expériences. (French) [Experimental designs] **99a:62101**
Experimental designs ★ Plans d'expériences. (French) [Experimental designs] **99a:62101**
Plans d'expériences ★ Plans d'expériences. (French) [Experimental designs] **99a:62101**

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(Ghosh, Subir) *see* **Design and analysis of experiments**, **99f:62002**
(Rao, Calyampudi Radhakrishna) *see* **Design and analysis of experiments**, **99f:62002**

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62K05 Optimal designs

Abt, Markus (*with* Liski, Erkki P.; Mandal, Nripes K.; Sinha, Bikas Kumar) Optimal designs in growth curve models. I. Correlated model for linear growth: optimal designs for slope parameter estimation and growth prediction. (English summary) **99c:62201**
— (*with* Gaffke, Norbert; Liski, Erkki P.; Sinha, Bikas Kumar) Optimal designs in growth curve models. II. Correlated model for quadratic growth: optimal designs for parameter estimation and growth prediction. (English summary) **99f:62086**
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Angold, Adrian *see* **Erkanli, Alaattin; et al., 99c:62205**
Ardanuy Albájar, Ramón *see* **López-Fidalgo, J.; et al., (99f:62008)**
Atkinson, Anthony C. (*with* Haines, Linda M.) Designs for nonlinear and generalized linear models. (*see* **99f:62002**)
Bates, R. A. (*with* Riccomagno, Eva; Schwabe, Rainer; Wynn, Henry P.) Lattices and dual lattices in optimal experimental design for Fourier models. (English summary)
Batsell, S. (*with* Fedorov, Valerii V.; Flanagan, D.) Multivariate prediction: selection of the most informative components to measure. (English summary) **99g:62103**
Bérubé, J. (*with* Nair, V. N.) Exploiting the inherent structure in robust parameter design experiments. (English summary) **99a:62102**
Bogomolov, S. Yu. (*with* Kartashov, G. D.) Optimal experimental design to estimate the correlation coefficient in a Gaussian model. (English summary) (*see* **99b:93002**)
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Ceranka, B. (*with* Katulska, K.) Optimum chemical balance weighing designs under equal correlations of errors. (English summary) **99f:62087**
Chan, Ling-Yau (*with* Meng, J. H.; Jiang, Yong Cai; Guan, Ying-Nan) *D*-optimal axial designs for quadratic and cubic additive mixture models. (English summary) **99e:62127**
— (*with* Guan, Ying-Nan; Zhang, Chong-Qi) *A*-optimal designs for an additive quadratic mixture model. (English summary) **99i:62164**
Chan, Nai N. *see* **Li, Kim-Hung; et al., 99g:62109**
Chang, Fu-Chuen On asymptotic distribution of optimal design for polynomial-type regression. (English summary) **99c:62202**
— (*with* Yeh, Yu-Rong) Exact *A*-optimal designs for quadratic regression. (English summary) **99g:62104**
Cheng, Ching-Shui Optimal design: exact theory. (*see* **99f:62002**)
— $E(s^2)$-optimal supersaturated designs. (English summary) **99c:62203**
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Chiu, Wan-Yi (*with* John, Peter W. M.) *D*-optimal fractional factorial designs. (English summary) **99a:62103**
Choi, Kuey Chung *see* **Gupta, Sudhir**
Chow, King Leung *E*-optimality for regression designs of supplementary experiments. (English summary) **99i:62165**
Das, Ashish D. (*with* Dey, Aloke; Dean, Angela M.) Optimal designs for diallel cross experiments. (English summary) **99g:62105**
DasGupta, Anirban Review of optimal Bayes designs. (*see* **99f:62002**)
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— A note on the uniform distribution on the arcsin points. (English summary) **99g:62106**
— (*with* Sahm, Michael) Standardized optimal designs for binary response experiments. (English summary) **99a:62104**
— (*with* Sahm, Michael) *E*-optimal designs for the double exponential model. (English summary) **99f:62088**
— (*with* Haller, Gerd) Optimal designs for the identification of the order of a Fourier regression. (English summary) **99k:62137**
— (*with* Sahm, Michael) Minimax optimal designs in nonlinear regression models. (English summary) **99i:62166**
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Erkanli, Alaattin (*with* Soyer, Refik; Angold, Adrian) Optimal Bayesian two-phase designs. (English summary) **99c:62205**
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— (*with* Hackl, Peter) ★ Model-oriented design of experiments. (English summary) **99f:62089**
— (*with* Müller, Werner G.) Another view on optimal design for estimating the point of extremum in quadratic regression. (English summary) **99c:62206**
— (*with* Montepiedra, Grace; Nachtsheim, Christopher J.) Optimal design and the model validity range. (English summary) **99g:62107**
— *see also* **Montepiedra, Grace, 99c:62209** *and* **Batsell, S.; et al., 99g:62103**
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Huda, S. Minimax second-order designs over hypercubes for the difference between estimated response at two points on a straight line through the origin. (English summary)
— (*with* Al-Shiha, A. A.) Minimax designs for estimating the slope of a third-order response surface in a hypercubic region. (English summary) **99a:62106**
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Kushner, H. B. Optimal repeated measurements designs: the linear optimality equations. (English summary) **99g:62108**
— Correction: "Optimal repeated measurements designs: the linear optimality equations" [Ann. Statist. **25** (1997), no. 6, 2328–2344; MR 99g:62108].
— Optimal and efficient repeated-measurements designs for uncorrelated observations. (English summary) **99m:62110**
— Errata: "Optimality and efficiency of two-treatment repeated measurement designs" [Biometrika **84** (1997), no. 2, 455–468; MR 98k:62134].
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— (*with* Wiens, Douglas P.) Robust designs for approximately polynomial regression. (English summary) **99e:62129**
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— (*with* Torsney, B.; Ardanuy Albájar, Ramón) MV-optimization in weighted linear regression. (English summary) (*see* **99f:62008**)
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Melas, V. B. Analytical theory of *E*-optimal designs for polynomial regression on a segment. (English summary) (*see* **99f:62008**)
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— (*with* Wong, Weng Kee) Optimal designs for models with ignored heteroscedasticity. (English summary) (*see* **99f:62008**)
— (*with* Yeh, Arthur B.) Two-stage designs for model discrimination and parameter estimation. (English summary) (*see* **99f:62008**)
— *see also* **Fedorov, Valerii V.; et al., 99g:62107**
Morgan, John P. *see* **Uddin, Nizam, 99c:62212**
Mukerjee, Rahul Optimal partial diallel crosses. (English summary) **99h:62096**
Müller, Christine H. (*with* Pázman, Andrej) Applications of necessary and sufficient conditions for maximin efficient designs. (English summary) **99m:62111**
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— *see also* **Rao, M. Bhaskara, 99h:62098**
Ortiz, Isabel (*with* Rodríguez Torreblanca, C.) *D*-optimal designs for weighted polynomial regression without any initial terms. (English summary) **99f:62091**
— (*with* Rodríguez Torreblanca, C.) Optimal designs with respect to Elfving's partial minimax criterion for heteroscedastic polynomial regression. (English summary) **99j:62107**
Pan, Guohua (*with* Santner, Thomas J.) Selection and screening procedures to determine optimal product designs. (English summary) **99h:62097**
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— (*with* Noh, Hyun Gon) A study on the influence of a missing cell in a class of central composite designs. (English summary)
Pázman, Andrej (*with* Müller, Werner G.) A new interpretation of design measures. (English summary) **99g:62112**
— *see also* **Müller, Christine H., 99m:62111**
Prescott, Philip Nearly optimal orthogonally blocked designs for a quadratic mixture model with q components. (English summary)
Pronzato, Luc On a property of the expected value of a determinant. (English summary) **99k:62138**
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— *see also* **Skubalska-Rafajłowicz, Ewa**
Rao, M. Bhaskara (*with* Ogunyemi, Theophilus O.) A note on *E*-optimal minimal block designs under mixed effects model. (English summary) **99h:62098**
— *see also* **Ogunyemi, Theophilus O., 99g:62111**
Reuter, George R. *see* **Macula, Anthony J., 99a:62109**
Riccomagno, Eva (*with* Schwabe, Rainer; Wynn, Henry P.) Lattice-based *D*-optimum design for Fourier regression. (English summary) **99c:62210**

— *see also* **Bates, R. A.; et al.**
Rodríguez-Díaz, J. M. *see* **López-Fidalgo, J., 99g:62110**
Rodríguez Torreblanca, C. *see* **Ortiz, Isabel, 99f:62091** *and* **99j:62107**
Sahm, Michael *see* **Dette, Holger, 99a:62104; 99f:62088** *and* **99i:62166**
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Schaefer, Martin *see* **Imhof, L.; et al., 99i:62168**
Schwabe, Rainer ★ Optimum designs for multi-factor models. (English summary) **99e:62130**
— Maximin efficient designs. Another view at D-optimality. (English summary) **99c:62211**
— *see also* **Riccomagno, Eva; et al., 99c:62210** *and* **Bates, R. A.; et al.**
Sebastiani, Paola (*with* Wynn, Henry P.) Risk based optimal designs. (English summary) (*see* **99f:62008**)
— (*with* Settimi, Raffaella) First-order optimal designs for non-linear models. (English summary) **99k:62139**
Settimi, Raffaella *see* **Sebastiani, Paola, 99k:62139**
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Steinberg, David M. (*with* Bursztyn, Dizza) Noise factors, dispersion effects, and robust design. (English summary) **99a:62110**
Stufken, John Optimal crossover designs. (*see* **99f:62002**)
Titterington, D. Michael *see* **Cheng, Ming-Yen; et al., 99c:62204**
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Uddin, Nizam (*with* Morgan, John P.) Efficient block designs for settings with spatially correlated errors. (English summary) **99c:62212**
— Row-column designs for comparing two treatments in the presence of correlated errors. (English summary) **99b:62111**
— (*with* Morgan, John P.) Errata: "Efficient block designs for settings with spatially correlated errors" [Biometrika **84** (1997), no. 2, 443–454; MR 99c:62212]. **Wayne, K.** *see* **Ko, Chun Wa; et al., 99f:62090**
Wiens, Douglas P. (*with* Zhou, Julie) Robust designs based on the infinitesimal approach. (English summary) **99b:62112**
— Minimax robust designs and weights for approximately specified regression models with heteroscedastic errors. (English summary) **99i:62169**
— *see also* **Liu, Shawn X., 99e:62129**
Wong, Koon-Sun *see* **Li, Kim-Hung; et al., 99g:62109**
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Wu, Huaiqing Optimal exact designs on a circle or a circular arc. (English summary) **99e:62131**
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Bose, Mausumi Designs with repeated measurements on any number of units over varying periods. (English summary) **99i:62170**
Chang, Jane Y. (*with* Notz, W. I.) Model robust designs. (*see* **99f:62002**)
Collombier, Dominique ★ Plans d'expérience factoriels. (French. French summary) [Factorial experimental designs] **99m:62115**
Dette, Holger Lower bounds for efficiencies with applications. (English summary) **99c:90089**
Dey, Aloke (*with* Shah, Kirti R.) Optimal asymmetric fractional factorial plans for estimating main effects and selected two-factor interactions. (English summary) **99j:62114**
— (*with* Midha, Chand K.) Addition or deletion? (English summary) **99b:62116**
Gaffke, Norbert (*with* Heiligers, Berthold) Approximate designs for polynomial regression: invariance, admissibility, and optimality. (*see* **99f:62002**)
Hauke, Jan (*with* Markiewicz, Augustyn) On statistical applications of matrix majorization. (English summary) **99h:62006**
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Kageyama, Sanpei (*with* Setoya, Hiroshi) Robustness of BIB designs against the unavailability of any two observations. (English summary) **99k:62140**
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Raghavarao, Damaraju (*with* Zhou, Bei) Universal optimality of UE 3-designs for a competing effects model. (English summary) **99b:62115**
Setoya, Hiroshi *see* **Kageyama, Sanpei, 99k:62140**
Shah, Kirti R. (*with* Sinha, Bikas Kumar) Row-column designs. (*see* **99f:62002**)
— *see also* **Dey, Aloke, 99j:62114**
Sinha, Bikas Kumar *see* **Shah, Kirti R., (99f:62002)**
Tian, Guo Liang The comparison between polynomial regression and orthogonal polynomial regression. (English summary) **99c:62174**
Wild, Peter R. Statistics. (English summary) (*see* **99a:05001**)
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Zieliński, Ryszard *see* **Męczarski, Marek, 99c:62013**

62K10 Block designs

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Caliński, Tadeusz (*with* Kageyama, Sanpei) Block designs: their combinatorial and statistical properties. (*see* **99f:62002**)
Chai, Feng-Shun A note on generalization of distinct representatives. (English summary) **99j:62109**
Chawla, G. C. (*with* Dey, Aloke) A series of balanced ternary change over designs. (English summary)
Cheng, Ching-Shui N-way balanced incomplete block designs. (English summary) **99j:62110**
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Federer, Walter T. ★ Statistical design and analysis for intercropping experiments. Vol. II. (English summary) **99m:62113**
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— A class of multi-factor designs for test versus control comparisons. (English summary) **99g:62113**
Hinkelmann, Klaus (*with* Jo, Jinnam) Linear trend-free Box-Behnken designs. (English summary) **99g:62114**
— *see also* **Singh, Murari, 99a:62112**
Jacroux, Mike On the determination and construction of E-optimal block designs in the presence of linear trends. (English summary) **99b:62113**
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— *see also* **Mejza, S., 99f:62093** *and* **Caliński, Tadeusz, (99f:62002)**
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Mejza, Iwona Characterisation of certain split-block designs with a control. (English summary)
Mejza, S. (*with* Kageyama, Sanpei) Some statistical properties of nested block designs. (English summary) **99f:62093**
Misra, B. L. (*with* Saxena, Ravi R.) Construction of block designs and arrays through 2^n-factorial experiment. (English summary) **99b:62114**
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— Orthogonal collections of Latin squares. (English summary) **99h:62099**
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— (*with* Das, Ashish D.) Discrimination among equivalent block designs. (*see* **99g:62003**)
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— *see also* **Das, Ashish D.; et al., 99g:62105**

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— (*with* Miao, Ying) Nested designs of superblock size four. (English summary) **99f:05016**

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Miao, Ying *see* **Kageyama, Sanpei, 99c:05025** *and* **99f:05016**

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Ogunyemi, Theophilus O. (*with* Rao, M. Bhaskara) On s- and (m, s)-optimality of minimal incomplete block designs. (English summary) **99g:62111**

— *see also* **Rao, M. Bhaskara, 99h:62098**

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62K15 Factorial designs

Agrawal, Harish Chandra On NCm type PBIB designs. (English summary) **99g:62116**

Anderson-Cook, C. M. Analysis of location and dispersion effects from factorial experiments with a directional response. (*see* **99f:62002**)

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Chen, Dechang *see* **Huang, Peng**[2]**; et al., 99j:62115**

Chen, Hegang Some projective properties of fractional factorial designs. (English summary) **99f:62094**

Chen, Jiahua Intelligent search for 2^{13-6} and 2^{14-7} minimum aberration designs. (English summary) **99m:62114**

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— (*with* Steinberg, David M.; Sun, Don X.) Minimum aberration and model robustness for two-level fractional factorial designs. (English summary)

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Collombier, Dominique ★ Plans d'expérience factoriels. (French. French summary) [Factorial experimental designs] **99m:62115**

Constantine, Gregory (*with* Xue, Lian Yong) Aliasing in 2^{n-k} fractions in the absence of within group interactions. (English summary) **99c:62213**

— (*with* Xue, Lian Yong) Aliasing in 2^{n-k} fractions in the case of a separation of factors. (English summary) **99g:62117**

Cui, Xuewei (*with* John, Peter W. M.) Time-trend free run orders with the minimum level changes. (English summary) **99a:62114**

Deng, Lih-Yuan (*with* Lin, Dennis K. J.) A note on Morris' bound for search designs. (English summary) **99i:62171**

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— (*with* Midha, Chand K.) Addition or deletion? (English summary) **99b:62116**

Draper, Norman R. (*with* Pukelsheim, Friedrich) Mixture models based on homogeneous polynomials. (English summary) **99f:62095**

Eccleston, J. A. *see* **Martin, Richard John; et al., 99f:62096**

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Hedayat, A. S. (*with* Pesotan, H.) Designs for two-level factorial experiments with linear models containing main effects and selected two-factor interactions. (English summary) **99c:62214**

Huang, Peng[2] (*with* Chen, Dechang; Voelkel, Joseph G.) Minimum-aberration two-level split-plot designs. (English summary) **99j:62115**

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Koukouvinos, Christos Some new three and four variable orthogonal designs in order 36. (English summary) **99i:62172**

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Li, Junfang Orthogonal factorial design of parallel flats type and its application in biomedical research. (English summary) **99g:62118**

Liao, C. T. (*with* Iyer, H. K.) Orthogonal parallel-flats designs for $s_1^{n_1} \times s_2^{n_2}$ mixed factorial experiments. (English summary) **99m:62116**

Lin, Dennis K. J. *see* **Deng, Lih-Yuan, 99i:62171**

Martin, Richard John (*with* Jones, Geoff; Eccleston, J. A.) Some results on two-level factorial designs with dependent observations. (English summary) **99f:62096**

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See, Kyoungah On asymptotic tests in three-factor factorial designs with no replications. (English summary) **99m:62117**

Shah, Kirti R. *see* **Dey, Aloke, 99j:62114**

Shil, R. N. (*with* Bhowmik, J. L.) A new method of construction of 5×2^3 design in 5×2 plots block. (English and Bengali summaries) **99i:62174**

— (*with* Bhowmik, J. L.) On a method of constructing confounded balanced design of the type 5×2^2. (English summary)

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Steel, S. J. *see* **Venter, J. H.**

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Ćepulić, Vladimir The unique symmetric block design (61, 16, 4) admitting an automorphism of order 15 operating standardly. **99b:05016**

Cheung, Siu Hung (*with* Wu, Yao Hua[1]) The power function of the maximum Studentized range test in a two-way design. (English summary) **99f:62027**

Hamada, Noboru (*with* Watamori, Yoko) The nonexistence of ternary [79, 6, 51] codes. (English summary) **99i:05050**

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Li, Junfang (*with* Srivastava, Jagdish N.) Optimal 2^n factorial designs of parallel flats type. (English summary) **99a:62108**

Sen, Pranab Kumar[1] Design and analysis of experiments: nonparametric methods with applications to clinical trials. (*see* **99f:62002**)

Srivastava, Jagdish N. A critique of some aspects of experimental design. (*see* **99f:62002**)

— *see also* **Li, Junfang, 99a:62108**

Street, Deborah J. Orthogonal arrays as designed experiments. (English summary) **99g:05034**

Watamori, Yoko *see* **Hamada, Noboru, 99i:05050**

Wu, Yao Hua[1] *see* **Cheung, Siu Hung, 99f:62027**

62K99 None of the above, but in this section

Bruno, W. J. (*with* Sun, Feng Zhu; Torney, D. C.) Optimizing nonadaptive group tests for objects with heterogeneous priors. (English summary) **99a:62115**

Chang, Jane Y. (*with* Notz, W. I.) Model robust designs. (*see* **99f:62002**)

Chen, Jiahua (*with* Lin, Dennis K. J.) On the identifiability of a supersaturated design. (English summary) **99i:62177**

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— (*with* John, J. A.) Response surface designs where levels of some factors are difficult to change. (English summary)

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Koehler, J. R. (*with* Owen, A. B.) Computer experiments. (*see* **99f:62002**)

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Ehrlich, W. K. *see* **Nair, V. N.; et al., 99a:62140**
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Jubinville, Chantal (*with* Tardif, Serge) Distribution-free analysis of a replicated Latin square design by the method of weighted rankings and generalized weighted rankings. (English summary) **99d:62051**
Malyutov, M. B. On sequential search for significant variables of the additive function. (English summary) **99c:62222**
Nair, V. N. (*with* James, D. A.; Ehrlich, W. K.; Zevallos, J.) A statistical assessment of some software testing strategies and application of experimental design techniques. (English summary) **99a:62140**
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62Lxx Sequential methods

62L05 Sequential design

Babb, James Scott *see* **Zacks, Shelemyahu; et al., 99b:62118**
Clayton, Murray K. *see* **Ginebra, Josep, 99c:62215**
Durham, S. D. (*with* Flournoy, N.; Li, Wu[3]) A sequential design for maximizing the probability of a favourable response. (English and French summaries) **99e:62133**
Faraway, Julian J. *see* **Park, Dongryeon, 99d:62074**
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Gelfand, Alan E. *see* **Vlachos, Pantelis K., 99b:62117**
Ginebra, Josep (*with* Clayton, Murray K.) On a theorem of Kelley. (English summary) **99c:62215**
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Hwang, Jinsoo Convergence of score process in the Cox proportional hazards model. (English summary) **99a:62116**
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Shanthikumar, J. George *see* **Righter, Rhonda, 99i:62180**
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— (*with* Rogatko, A.; Babb, James Scott) Optimal Bayesian-feasible dose escalation for cancer phase I trials. (English summary) **99b:62118**
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Armitage, Peter The design and analysis of clinical trials. (*see* **99f:62002**)
Cheng, Ming-Yen (*with* Hall, Peter Gavin; Titterington, D. Michael) Optimal design for curve estimation by local linear smoothing. (English summary) **99c:62204**
Coad, D. S. (*with* Woodroofe, Michael) Approximate bias calculations for sequentially designed experiments. (English summary) **99i:62181**
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Morgan, Peter B. (*with* Cressie, Noel) A comparison of the cost-efficiencies of the sequential, group-sequential, and variable-sample-size-sequential probability ratio tests. (English summary) **99a:62119**
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62L10 Sequential analysis

Al-Khalidi, Hussein R. *see* **Shen, Larry Z., 99c:62224**
Aoshima, Makoto *see* **Takada, Yoshikazu, 99c:62225**
Bandyopadhyay, Uttam (*with* Biswas, Atanu) Some sequential tests in clinical trials based on randomized-play-the-winner rule. (English summary) **99e:62134**
Barbe, Philippe (*with* Broniatowski, M.) Large deviation principle for sequential rank processes. (English summary) **99g:62120**
Beibel, M. Sequential change-point detection in continuous time when the post-change drift is unknown. (English summary) **99c:62217**
Biswas, Atanu *see* **Bandyopadhyay, Uttam, 99e:62134**
Broniatowski, M. *see* **Barbe, Philippe, 99g:62120**
Chaturvedi, Ajit (*with* Pandey, Sunil Kumar; Misra, Sheela) A class of asymptotically efficient and consistent sequential procedures to construct fixed-size confidence regions. (English and Hindi summaries) **99d:62075**
— (*with* Kumar, Ajay; Chauhan, Pramila) Robustness of a sequential test for the mean of an inverted gamma distribution. (English summary)
Chauhan, Pramila *see* **Chaturvedi, Ajit; et al.**
Chen, T. Timothy (*with* Zhang, Cun-Hui) An invariant selection rule for multi-treatment trial with linear prior preference. (English summary) **99b:62119**
Chistyakov, V. P. *see* **Selivanov, B. I., 99c:62223**
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Coad, D. S. (*with* Woodroofe, Michael) Approximate bias calculations for sequentially designed experiments. (English summary) **99i:62181**
Costantini, Cristina (*with* Pasqualucci, D.) Monotonicity of Bayes sequential tests for multidimensional and censored observations. (English summary) **99k:62143**
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De, Moloy (*with* Sarkar, Jyotirmoy) Estimation of the common mean of two normal populations using two stage sampling. (English summary)
DeMets, David L. *see* **Pinheiro, José C., 99a:62120**
Denne, Jonathan S. (*with* Jennison, Christopher) Improving the post-experimental properties of Stein's two-stage procedure. (English summary)
Donchev, Doncho S. On the two-armed bandit problem with non-observed Poissonian switching of arms. (English summary) **99c:62218**
Gordon, Louis (*with* Pollak, Moshe) Average run length to false alarm for surveillance schemes designed with partially specified pre-change distribution. (English summary) **99d:62076**
Greenshtein, Eitan Imperfect surveillance schemes for detecting a change in the distribution of a stationary process. The Markovian case. (English summary) **99b:62120**
— Time sequential testing with fixed study time. (English summary) **99c:62219**
Guiard, V. (*with* Langemann, B.) Generalization of a lemma of Kiefer and Weiss for the case of sequentially planned decision problems with more than two hypotheses. (English summary) **99c:62220**
Hall, W. J. The distribution of Brownian motion on linear stopping boundaries. (English summary) **99a:62117a**
— Addendum to: "The distribution of Brownian motion on linear stopping boundaries". **99a:62117b**
Hardwick, Janis (*with* Page, Connie; Stout, Quentin F.) Sequentially deciding between two experiments for estimating a common success probability. (English summary) **99i:62182**
Hušková, Marie Sequential tests based on rank regression scores. (English summary) **99h:62102**
Irle, Albrecht A bound for higher moments of expected sample size in sequential testing. (English summary) **99c:62221**
Jennison, Christopher *see* **Denne, Jonathan S.**
Khan, Rasul A. Monotonic expectations, Neyman-Pearson lemma, and some properties of the SPRT. (English summary) **99a:62118**
Knoth, Sven Exact average run lengths of CUSUM schemes for Erlang distributions. (English summary) **99h:62103**
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Langemann, B. *see* **Guiard, V., 99c:62220**
Malyutov, M. B. On sequential search for significant variables of the additive function. (English summary) **99c:62222**
Maul, A. A discrete time sequential process for analyzing censored survival data using the likelihood ratio. (English summary)
Misra, Sheela *see* **Chaturvedi, Ajit; et al., 99d:62075**
Morgan, Peter B. (*with* Cressie, Noel) A comparison of the cost-efficiencies of the sequential, group-sequential, and variable-sample-size-sequential probability ratio tests. (English summary) **99a:62119**
Mukhopadhyay, Nitis (*with* de Silva, Basil M.) Multistage partial piecewise sampling and its applications. (English summary) **99e:62135**
Novikov, An. A. (*with* Novikov, V. V.) Sequential procedures for multihypotheses testing. (English summary) **99e:62136**
Novikov, V. V. *see* **Novikov, An. A., 99e:62136**
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Pasqualucci, D. *see* **Costantini, Cristina, 99k:62143**
Pinheiro, José C. (*with* DeMets, David L.) Estimating and reducing bias in group sequential designs with Gaussian independent increment structure. (English summary) **99a:62120**
Pollak, Moshe *see* **Gordon, Louis, 99d:62076**
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Selivanov, B. I. (*with* Chistyakov, V. P.) A sequential χ^2-test constructed from s-chains of states of a Markov chain. (Russian. Russian summary) **99c:62223**
Shen, Larry Z. (*with* Al-Khalidi, Hussein R.) Application of boundary calculation methodologies to group sequential testing in general parametric models. (English

summary) **99c:62224**
de Silva, Basil M. *see* **Mukhopadhyay, Nitis, 99e:62135**
Stout, Quentin F. *see* **Hardwick, Janis; et al., 99i:62182**
Takada, Yoshikazu (*with* Aoshima, Makoto) Two-stage procedures for estimating a linear function of multinormal mean vectors. (English summary) **99c:62225**
Tartakovskiĭ, Aleksandr Asymptotically optimal sequential tests for nonhomogeneous processes. (English summary) **99c:62226**
Wilrich, Peter-Th. A sequential test for the comparison of the precision of two measurement methods. (English summary) (*see* **99f:62007**)
Woodroofe, Michael *see* **Coad, D. S., 99i:62181**
Yakir, Benjamin A note on optimal detection of a change in distribution. (English summary) **99a:62121**
— On the distribution of a concomitant statistic in a sequential trial. (English summary) **99g:62121**
— On the average run length to false alarm in surveillance problems which possess an invariance structure. (English summary) **99g:62122**
Yue, Jack C. (*with* Clayton, Murray K.) Bayesian sequential tests for comparing the number of species in two populations: a simulation study. (English summary)
Zhang, Cun-Hui *see* **Chen, T. Timothy, 99b:62119**

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Govindarajulu, Z. A note on two-stage fixed-width interval estimation procedure for normal variance. II. (English summary) **99e:62138**
Griffin, P. S. (*with* Maller, R. A.) On the rate of growth of the overshoot and the maximum partial sum. (English summary) **99c:60149**
Gut, Allan Stopped two-dimensional perturbed random walks and Lévy processes. (English summary) **99c:60044**
Hu, Inchi On sequential designs in nonlinear problems. (English summary) **99m:62118**
Jennison, Christopher (*with* Turnbull, Bruce W.) Distribution theory of group sequential t, χ^2 and F-tests for general linear models. (English summary) **99g:62090**
Koike, Ken-ichi A lower bound for the Bayes risk in the sequential case. (Japanese) (*see* **99a:62005**)
Koltchinskii, Vladimir I. *see* **Rao, Calyampudi Radhakrishna; et al., 99j:62059**
Konev, Viktor *see* **Gal'chuk, L. I., 99m:62135**
Maller, R. A. *see* **Griffin, P. S., 99c:60149**
Mukhopadhyay, Nitis (*with* Solanky, T. K. S.) On an improved accelerated sequential methodology with applications in selection and ranking. **99j:62024**
Nishihira, Yuji Sufficiency and transitions in statistical sequential decision theory. (Japanese) (*see* **99a:62005**)
Pathak, P. K. *see* **Rao, Calyampudi Radhakrishna; et al., 99j:62059**
Pollak, Moshe *see* **Yakir, Benjamin, 99f:60152**
Rao, Calyampudi Radhakrishna (*with* Pathak, P. K.; Koltchinskii, Vladimir I.) Bootstrap by sequential resampling. (English summary) **99j:62059**
Solanky, T. K. S. *see* **Mukhopadhyay, Nitis, 99j:62024**
Stallard, Nigel Sample size determination for phase II clinical trials based on Bayesian decision theory. (English and French summaries) **99a:62154**
Su, Yeong-Tzay A renewal theory for perturbed Markov random walks with applications to sequential analysis. (English summary) **99m:60138**
Takenami, Toshiyuki Boundary decision problems for sequential tests and random walks. (Japanese) (*see* **99f:65007**)
Turnbull, Bruce W. *see* **Jennison, Christopher, 99g:62090**
Yakir, Benjamin (*with* Pollak, Moshe) A new representation for a renewal-theoretic constant appearing in asymptotic approximations of large deviations. (English summary) **99f:60152**

62L12 Sequential estimation

Akahira, Masafumi (*with* Koike, Ken-ichi) On the properties of statistical sequential decision procedures [translation of Sūgaku **48** (1996), no. 2, 184–195; MR 97e:62105]. (*see* **99h:00040**)
Aoshima, Makoto A two-stage procedure for fixed-size confidence region when covariance matrices have some structures. (English summary) **99m:62120**
— (*with* Mukhopadhyay, Nitis) Fixed-width simultaneous confidence intervals for multinormal means in several intraclass correlation models. (English summary) **99i:62183**
Bartos, Jerzy (*with* Kałuszka, Marek) Note on an improvement in two-stage sampling scheme. (English summary) **99c:62227**
Bose, Arup (*with* Boukai, Benzion) Sequential estimation of the mean of NEF-PVF distributions. (English summary) **99h:62104**
Boukai, Benzion *see* **Bose, Arup, 99h:62104**
Costanza, M. C. *see* **Son, M. S.; et al., 99c:62230**
Duggan, William T. *see* **Mukhopadhyay, Nitis, 99m:62122**
Franz, Jürgen (*with* Magiera, Ryszard) On information inequalities in sequential estimation for stochastic processes. (English summary) **99a:62122**
— (*with* Magiera, Ryszard) Sequential estimation for a family of counting processes in the nuisance parameter case. (English summary) **99i:62184**
Gajek, Lesław (*with* Mizera-Florczak, B.) Information inequalities for the minimax risk of sequential estimators (with applications). (English summary) **99e:62137**
Gal'chuk, L. I. On sequential estimation of parameters for linear regression with martingale noise. (English summary) **99f:62098**
Govindarajulu, Z. A note on two-stage fixed-width interval estimation procedure for normal variance. II. (English summary) **99e:62138**
— A note on two-stage and sequential fixed-width intervals for the parameter in the uniform density. (English summary) **99b:62121**
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Hirose, Keiichi (*with* Isogai, Eiichi; Uno, Chikara) The convergence rate of fixed-width sequential confidence intervals for a parameter of an exponential distribution. (English summary) **99d:62077**
— (*with* Isogai, Eiichi) Sequential fixed-width confidence interval estimation for the percentiles of a normal distribution. (English summary) **99a:62123**
Isogai, Eiichi *see* **Hirose, Keiichi, 99a:62123** *and* **99d:62077**
Kałuszka, Marek *see* **Bartos, Jerzy, 99c:62227**
Koike, Ken-ichi Asymptotic efficiency in sequential estimation. (Japanese) (*see* **99m:62007**)
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Liu, Wei[4] A k-stage sequential sampling procedure for estimation of normal mean. (English summary) **99e:62139**
Magiera, Ryszard On a class of sequential estimation problems for one-parameter exponential families. (English summary) **99m:62121**
— Minimax sequential procedures for Markov renewal processes. (English summary) (*see* **99a:90009**)
— Optimal sequential estimation for Markov-additive processes. (English summary) **99f:62099**
— Optimal sequential estimation procedures under delayed observations from multiparameter exponential families. (*see* **99d:90008**)
— On minimax sequential procedures for exponential families of stochastic processes. (English summary) **99c:62228**
— *see also* **Franz, Jürgen, 99a:62122** *and* **99i:62184**
Mizera-Florczak, B. *see* **Gajek, Lesław, 99e:62137**
Mukhopadhyay, Nitis (*with* de Silva, Basil M.) Multi-stage fixed-width confidence intervals in the two-sample problem: the normal case. (English summary) **99c:62229**
— (*with* Duggan, William T.) Can a two-stage procedure enjoy second-order properties? (English summary) **99m:62122**
— (*with* de Silva, Basil M.) Sequential estimation of the mean of an exponential distribution via partial piecewise sampling. (English summary) **99j:62116**
— *see also* **Aoshima, Makoto, 99i:62183**
Nagao, Hisao Asymptotically pointwise optimal rules of sequential estimation of mean vector when an information matrix has some structure in a multivariate normal population. (English summary) **99b:62122**
Seila, Andrew F. *see* **Zheng, Shen; et al., 99d:62078**
de Silva, Basil M. *see* **Mukhopadhyay, Nitis, 99c:62229** *and* **99j:62116**
Son, M. S. (*with* Haugh, L. D.; Hamdy, H. I.; Costanza, M. C.) Controlling type II error while constructing triple sampling fixed precision confidence intervals for the normal mean. (English summary) **99c:62230**
Sriram, T. N. *see* **Zheng, Shen; et al., 99d:62078**
Sun, Liu Quan (*with* Zhou, Yong[2]) Sequential confidence bands for densities under truncated and censored data. (English summary) **99k:62144**
Uno, Chikara *see* **Hirose, Keiichi; et al., 99d:62077**
Zheng, Shen (*with* Sriram, T. N.; Seila, Andrew F.) Sequential fixed-width confidence interval for the product of two means. (English summary) **99d:62078**
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Etemadi, N. (*with* Sriram, T. N.; Vidyashankar, A. N.) L_p convergence of reciprocals of sample means with applications to sequential estimation in linear regression. (English summary) **99d:60046**
Seila, Andrew F. *see* **Zheng, Shen; et al., 99m:62119**
Sriram, T. N. *see* **Etemadi, N.; et al., 99d:60046** *and* **Zheng, Shen; et al., 99m:62119**
Vidyashankar, A. N. *see* **Etemadi, N.; et al., 99d:60046**
Zheng, Shen (*with* Seila, Andrew F.; Sriram, T. N.) Asymptotically risk efficient two stage procedure for estimating the product of $k(\geq 2)$ means. (English summary) **99m:62119**

62L15 Optimal stopping [see also 60G40, 90D60]

Assaf, David (*with* Goldstein, Larry Mark; Samuel-Cahn, Ester) A statistical version of prophet inequalities. (English summary) **99h:62105**
Bakia, I. A. On the payoff convergence rate estimation in the problem of optimal stopping of random sequences in the scheme of Kalman-Bucy. (Russian and Georgian summaries)
Beibel, M. Generalized parking problems for Lévy processes. (English summary) **99j:62117**
Burnetas, Apostolos N. (*with* Katehakis, Michael N.) Dynamic allocation policies for the finite horizon one armed bandit problem. (English summary) **99m:62123**
van Dorp, J. René (*with* Mazzuchi, Thomas A.; Soyer, Refik) Sequential inference and decision making for single mission systems development. (English summary) **99b:62123**
Goldstein, Larry Mark *see* **Assaf, David; et al., 99h:62105**
Greenshtein, Eitan (*with* Torgersen, Erik) Ordering of sequentially sampled exponential experiments. (English summary) **99i:62185**
Katehakis, Michael N. *see* **Burnetas, Apostolos N., 99m:62123**
Mazzuchi, Thomas A. *see* **van Dorp, J. René; et al., 99b:62123**
O'Quigley, John (*with* Reiner, Ethan) A stopping rule for the continual reassessment method. (English summary) **99i:62186**
Pham-Gia, T. Distribution of the stopping time in Bayesian sequential sampling. (English summary) **99g:62123**
Reiner, Ethan *see* **O'Quigley, John, 99i:62186**
Samuel-Cahn, Ester *see* **Assaf, David; et al., 99h:62105**
Schwabe, Rainer Uncertain resources and designing for additional information. (*see* **99g:62003**)
Sørensen, Michael On comparison of stopping times in sequential procedures for exponential families of stochastic processes. (English summary) **99j:62118**
Soyer, Refik *see* **van Dorp, J. René; et al., 99b:62123**
Torgersen, Erik *see* **Greenshtein, Eitan, 99i:62185**
Wu, Yanhong Sequential change point detection and estimation for multiple alternative hypothesis. (*see* **99k:93007**)

Items with secondary classifications in 62L15

Amari, Shun-ichi *see* **Hiraoka, Kazuyuki, 99k:90206**

Bandyopadhyay, Uttam (*with* Biswas, Atanu) Some sequential tests in clinical trials based on randomized-play-the-winner rule. (English summary) **99e:62134**
Biswas, Atanu *see* **Bandyopadhyay, Uttam, 99e:62134**
Boetius, Frederik (*with* Kohlmann, Michael) Connections between optimal stopping and singular stochastic control. (English summary) **99g:93085**
Bruss, F. Thomas Quick solutions for general best choice problems in continuous time. (English summary) **99g:60082**
Castañon, David (*with* Streltsov, Simon; Vakili, Pirooz) Optimality of index policies for a sequential sampling problem. (English summary) **99k:93093**
Etemadi, N. (*with* Sriram, T. N.; Vidyashankar, A. N.) L_p convergence of reciprocals of sample means with applications to sequential estimation in linear regression. (English summary) **99d:60046**
Hiraoka, Kazuyuki (*with* Amari, Shun-ichi) Strategy under the unknown stochastic environment: the nonparametric lob-pass problem. (English summary) **99k:90206**
Kadota, Yoshinobu (*with* Kurano, Masami; Yasuda, Masami) Stopped decision processes with general utility. (English summary) **99m:90159**
Kohlmann, Michael *see* **Boetius, Frederik, 99g:93085**
Kurano, Masami *see* **Kadota, Yoshinobu; et al., 99m:90159**
Lehmann, Axel Boundary crossing probabilities of Poisson counting processes with general boundaries. (English summary) **99g:60088**
Leipus, R. A posteriori and sequential methods of change-point detection in FARIMA-type time series. **99f:62110**
Lovász, László (*with* Winkler, Peter M.) Mixing times. (English summary) **99h:60138**
Mordecki, Ernesto Optimal stopping for a compound Poisson process with exponential jumps. (English summary) **99f:60087**
Moustakides, George V. Quickest detection of abrupt changes for a class of random processes. (English summary) **99i:60095**
Righter, Rhonda (*with* Shanthikumar, J. George) Independently expiring multiarmed bandits. (English summary) **99i:62180**
Shanthikumar, J. George *see* **Righter, Rhonda, 99i:62180**
Sriram, T. N. *see* **Etemadi, N.; et al., 99d:60046**
Streltsov, Simon *see* **Castañon, David; et al., 99k:93093**
Vakili, Pirooz *see* **Castañon, David; et al., 99k:93093**
Vidyashankar, A. N. *see* **Etemadi, N.; et al., 99d:60046**
Winkler, Peter M. *see* **Lovász, László, 99h:60138**
Yasuda, Masami *see* **Kadota, Yoshinobu; et al., 99m:90159**

62L20 Stochastic approximation

Benaïm, Michel Recursive algorithms, urn processes and chaining number of chain recurrent sets. (English summary) **99f:62100**
Berger, Erich An almost sure invariance principle for stochastic approximation procedures in linear filtering theory. (English summary) **99c:62231**
Borkar, Vivek S. Asynchronous stochastic approximations. (English summary) **99e:62140**
Brandière, Odile The dynamic system method and the traps. (English summary) **99g:62124**
— Some pathological traps for stochastic approximation. (English summary) **99h:62106**
Chen, Han-Fu Stochastic approximation with non-additive measurement noise. (English summary) **99m:62124**
— (*with* Wang, Qian) Continuous-time Kiefer-Wolfowitz algorithm with randomized differences. (English summary) **99i:62187**
— *see also* **Zhang, Junhua, 99e:62143** *and* **Wang, Guan Jun, 99m:62126**
Chong, Edwin K. P. (*with* Wang, I-Jeng; Kulkarni, Sanjeev R.) Noise conditions for prespecified convergence rates of stochastic approximation algorithms. (English summary) **99m:62125**
— *see also* **Wang, I-Jeng; et al., 99c:62233**
Duflo, Marie ★ Algorithmes stochastiques. (French. French summary) [Stochastic algorithms] **99e:62141**
Fort, Jean-Claude (*with* Pagès, Gilles) Correction: "Convergence of stochastic algorithms: from the Kushner-Clark theorem to the Lyapounov functional method" [Adv. in Appl. Probab. **28** (1996), no. 4, 1072–1094; MR 98b:62147]. **99b:62124**
Gu, Ming Gao[2] (*with* Kong, Fan Hui[1]) A stochastic approximation algorithm with Markov chain Monte-Carlo method for incomplete data estimation problems. (English summary) **99c:62232**
Kong, Fan Hui[1] *see* **Gu, Ming Gao[2], 99c:62232**
Koval′, V. A. (*with* Schwabe, Rainer) Exact bounds for the rate of convergence in general stochastic approximation procedures. (English summary) **99e:62142**
Kulkarni, Sanjeev R. *see* **Wang, I-Jeng; et al., 99c:62233** *and* **Chong, Edwin K. P.; et al., 99m:62125**
Leung, Denis Heng-Yan (*with* Wang, You-Gan) Bias reduction using stochastic approximation. (English summary) **99b:62125**
Pagès, Gilles *see* **Fort, Jean-Claude, 99b:62124**
Pelletier, Mariane Weak convergence rates for stochastic approximation with application to multiple targets and simulated annealing. (English summary) **99f:62101**
Poix, Jérôme Stochastic approximation for local martingale error and random gain process. (English summary) **99g:62125**
Rodkina, A. E. On asymptotical normality of stochastic procedures with retardation. (English summary) **99g:62126**
Schwabe, Rainer *see* **Koval′, V. A., 99e:62142**
Sen, Pranab Kumar[1] (*with* Zhou, Zhenwei) Stochastic approximation and selection of a conditional extremal function in continuum. (English summary) **99g:62127**
Wang, Guan Jun (*with* Chen, Han-Fu) Behavior of stochastic approximation algorithm in root set of regression function. (English summary) **99m:62126**
Wang, I-Jeng (*with* Chong, Edwin K. P.; Kulkarni, Sanjeev R.) Weighted averaging and stochastic approximation. (English summary) **99c:62233**
— *see also* **Chong, Edwin K. P.; et al., 99m:62125**
Wang, Qian *see* **Chen, Han-Fu, 99i:62187**
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Zhang, Junhua (*with* Chen, Han-Fu) Convergence of algorithms used for principal component analysis. (English summary) **99e:62143**
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Andradóttir, Sigrún A stochastic approximation algorithm with varying bounds. (English summary) **99c:65119**
Bhatnagar, Shalabh (*with* Borkar, Vivek S.) A two timescale stochastic approximation scheme for simulation-based parametric optimization. (English summary) **99f:93144**
Borkar, Vivek S. (*with* Konda, Vijaymohan R.) The actor-critic algorithm as multi-time-scale stochastic approximation. (English summary) **99f:90178**
— *see also* **Bhatnagar, Shalabh, 99f:93144**
Gerencsér, László On fixed gain recursive estimation processes. (English summary) **99h:93102**
— Rate of convergence of moments of Spall's SPSA method. (*see* **99c:60002**)
Konda, Vijaymohan R. *see* **Borkar, Vivek S., 99f:90178**
L'Ecuyer, Pierre (*with* Yin, Gang George) Budget-dependent convergence rate of stochastic approximation. (English summary) **99f:60049**
Maghsoodi, Yoosef Mean square efficient numerical solution of jump-diffusion stochastic differential equations. (English summary) **99k:60154**
Márquez, David Convergence rates for annealing diffusion processes. (English summary) **99b:65006**
Poix, Jérôme Un exemple d'application des grandes déviations à l'approximation stochastique. (English and French summaries) [An example of application of large deviations to stochastic approximation] **99h:60058**
Yin, Gang George *see* **L'Ecuyer, Pierre, 99f:60049**

62L99 None of the above, but in this section

Lai, Tze Leung Information bounds and quick detection of parameter changes in stochastic systems. (English summary) **99i:62188**

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Bagui, Subhash C. (*with* Mehra, K. L.; Vaughn, Brandon K.) An M-stage version of the k-RNN rule in statistical discrimination. (English summary) **99h:62080**
Donchev, Doncho S. A system of functional-differential equations associated with the optimal detection problem for jump-times of a Poisson process. (English summary) **99c:60110**
Mehra, K. L. *see* **Bagui, Subhash C.; et al., 99h:62080**
Vaughn, Brandon K. *see* **Bagui, Subhash C.; et al., 99h:62080**

62Mxx Inference from stochastic processes

62M02 Markov processes: hypothesis testing

Ango Nze, Patrick Critères d'ergodicité géométrique ou arithmétique de modèles linéaires perturbés à représentation markovienne. (English and French summaries) [Geometric and subgeometric rates for Markovian processes in the neighborhood of linearity] **99k:62145**
Kendall, Wilfrid S. Perfect simulation for the area-interaction point process. (English summary) **99e:62144**

Items with secondary classifications in 62M02

Chistyakov, V. P. *see* **Selivanov, B. I., 99c:62223**
Kreiss, Jens-Peter *see* **Neumann, Michael H., 99m:62062**
Neumann, Michael H. (*with* Kreiss, Jens-Peter) Regression-type inference in nonparametric autoregression. (English summary) **99m:62062**
Selivanov, B. I. (*with* Chistyakov, V. P.) A sequential χ^2-test constructed from s-chains of states of a Markov chain. (Russian. Russian summary) **99c:62223**

62M05 Markov processes: estimation

Alencar, A. P. *see* **Dorea, Chang Chung Yu; et al., 99a:62124**
Aydoğdu, Halil (*with* Öztürk, Fikri) Estimation of the variance function in renewal processes. (English summary)
Bertrand, Pierre Comparaison de l'erreur quadratique moyenne intégrée pour différents estimateurs du coefficient de diffusion d'un processus. (English and French summaries) [Mean integrated square error for different estimators of the diffusion coefficient of a diffusion process] **99i:62189**
Bingham, N. H. (*with* Dunham, Bruce) Estimating diffusion coefficients from count data: Einstein-Smoluchowski theory revisited. (English summary) **99m:62127**
Dietz, Hans M. (*with* Kutoyants, Yurii) A class of minimum-distance estimators for diffusion processes with ergodic properties. (English summary) **99b:62126**
Dorea, Chang Chung Yu (*with* Galves, A.; Kira, E.; Alencar, A. P.) Markovian modeling of the stress contours of Brazilian and European Portuguese. (English summary) **99a:62124**
Dunham, Bruce *see* **Bingham, N. H., 99m:62127**
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Brown, Lawrence D. (*with* Low, Mark G.; Zhao, Linda H.) Superefficiency in nonparametric function estimation. (English summary) **99b:62045**
— (*with* Zhang, Cun-Hui) Asymptotic nonequivalence of nonparametric experiments when the smoothness index is 1/2. (English summary) **99f:62058**
Daley, D. J. (*with* Servi, L. D.) Moment estimation of customer loss rates from transactional data. (English summary) **99e:60202**
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Gneiting, Tilmann Simple tests for the validity of correlation function models on the circle. (English summary) **99i:62191**
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Magiera, Ryszard Optimal sequential estimation for Markov-additive processes. (English summary) **99f:62099**
Maglaperidze, N. O. (*with* Tsigroshvili, Z. P.; van Pul, M.) Goodness-of-fit tests for parametric hypotheses on the distribution of point processes. (English summary) **99m:62071**
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62M10 Time series, auto-correlation, regression, etc. [see also 90A20]

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— (*with* Lumsdaine, Robin L.; Stock, James H.) Testing for and dating common breaks in multivariate time series. (English summary) **99k:62151**
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Esa, Sahib (*with* Boshnakov, Georgi N.) Sufficient statistics for ARMA models with some fixed parameters. (English summary) **99a:62129**

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North, Gerald R. *see* **Li, Ta-Hsin, 99c:62276**
Psaradakis, Zacharias Bootstrap-based evaluation of Markov-switching time series models. (English summary)
Rouault, A. *see* **Bercu, Bernard; et al., 99c:60052**
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62M20 Prediction [see also 60G25]; filtering [see also 60G35, 93E10, 93E11]

Abraham, Bovas *see* **Thavaneswaran, A.; et al., 99h:62122**
Alonso, Francisco J. *see* **Mardia, Kanti V.; et al., 99i:62227**
Arjas, Elja (*with* Gasbarra, Dario) On prequential model assessment in life history analysis. (English summary) **99d:62091**
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— (*with* Fu-Li) On the asymptotic normality of estimators of impulse transfer functions of linear systems. II. (Russian. Russian summary) **99k:62177**
De Gooijer, Jan G. *see* **Matzner-Løber, Eric; et al., 99f:62117**
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Gasbarra, Dario *see* **Arjas, Elja, 99d:62091**
Golubev, G. K. (*with* Khasminskii, Rafail Z.) Asymptotically optimal filtering for a hidden Markov model. (English summary) **99m:62146**
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Landers, D. (*with* Rogge, L.) Best φ-approximants for bounded loss functions. (English summary) **99i:62226**
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Mardia, Kanti V. (*with* Goodall, Colin; Redfern, Edwin J.; Alonso, Francisco J.) The Kriged Kalman filter. (English summary) **99i:62227**
Matzner-Løber, Eric (*with* Gannoun, Ali; De Gooijer, Jan G.) Nonparametric forecasting: a comparison of three kernel-based methods. (English summary) **99f:62117**
Müller-Gronbach, Thomas Hyperbolic cross designs for approximation of random fields. (English summary) **99c:62272**
Redfern, Edwin J. *see* **Mardia, Kanti V.; et al., 99i:62227**
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Thavaneswaran, A. (*with* Macpherson, B. D.; Abraham, Bovas) An application of filtering to statistical process control. (English summary) **99h:62122**
Tsimikas, John V. (*with* Ledolter, Johannes) Analysis of multi-unit variance components models with state space profiles. (English summary) **99e:62168**
Vidoni, Paolo Exponential family state space models based on a conjugate latent process. (English summary) **99i:62228**

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Aihara, Shin Ichi Identification of a discontinuous parameter in stochastic parabolic systems. (English summary) **99a:93103**
— Consistency property of extended least-squares parameter estimation for stochastic diffusion equation. (English summary) **99f:93130**
Anděl, Jiří (*with* Neuhaus, Georg) Extrapolation in fractional autoregressive models. (English summary) **99j:62121**
Arfi, Mounir Nonparametric prediction from ergodic samples. (English summary) **99a:62039**
Berke, Olaf On spatiotemporal prediction for on-line monitoring data. (English summary)
Billio, Monica (*with* Monfort, Alain) Switching state-space models: likelihood function, filtering and smoothing. (English summary) **99c:62241**
Braun, W. John *see* **Li, Wei; et al., 99k:90089**
Brockwell, P. J. (*with* Mitchell, Heather) Linear prediction for a class of multivariate stable processes. (English summary) **99d:60050**
Christoffersen, Peter F. (*with* Diebold, Francis X.) Cointegration and long-horizon forecasting. (English summary)
Diebold, Francis X. *see* **Christoffersen, Peter F.**
Gidas, B. (*with* Murúa, Alejandro E.) Optimal transformations for prediction in continuous-time stochastic processes. (English summary) **99k:60111**
Ibragimov, Il'dar Abdulovich On estimation of analytic functions. **99h:62047**
Janson, Svante ★ Gaussian Hilbert spaces. (English summary) **99f:60082**
de Jong, Piet (*with* Penzer, Jeremy) Diagnosing shocks in time series. (English summary) **99g:62137**
Karatzas, Ioannis Adaptive control of a diffusion to a goal and a parabolic Monge-Ampère-type equation. (English summary) **99a:93111**
Le Breton, Alain Filtering and parameter estimation in a simple linear system driven by a fractional Brownian motion. (English summary) **99c:60088**
Li, Wei (*with* Braun, W. John; Zhao, Yiqiang Q.) Stochastic scheduling on a repairable machine with Erlang uptime distribution. (English summary) **99k:90089**
Mitchell, Heather *see* **Brockwell, P. J., 99d:60050**
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Rosenblatt, Murray Non-Gaussian autoregressive and moving average schemes. **99m:60067**
Taplin, Ross H. The reverse Kalman filter. (English summary)
Watkins, David S. Unitary orthogonalization processes. (English summary) **99d:65123**
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62M30 Spatial processes

Berke, Olaf On spatiotemporal prediction for on-line monitoring data. (English summary)
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González-Farías, Graciela *see* **Hughes-Oliver, Jacqueline M., 99k:62179**
Granville, V. Estimation of the intensity of a Poisson point process by means of nearest neighbor distances. (English summary) **99g:62144**
Griffith, Daniel A. (*with* Lagona, Francesco) On the quality of likelihood-based estimators in spatial autoregressive models when the data dependence structure is misspecified. (English summary) **99k:62178**
Hughes-Oliver, Jacqueline M. (*with* González-Farías, Graciela) Parametric covariance models for shock-induced stochastic processes. (English summary) **99k:62179**
Kaiser, Mark S. (*with* Cressie, Noel) Modeling Poisson variables with positive spatial dependence. (English summary) **99c:62273**
Lagona, Francesco *see* **Griffith, Daniel A., 99k:62178**
Maitra, Ranjan (*with* O'Sullivan, Finbarr) Variability assessment in positron emission tomography and related generalized deconvolution models. (English summary) **99i:62229**
O'Sullivan, Finbarr *see* **Maitra, Ranjan, 99i:62229**
Rue, Håvard (*with* Syversveen, Anne Randi) Bayesian object recognition with Baddeley's delta loss. (English summary) **99b:62149**
Schmitt, Michel Estimation of intensity and shape in a non-stationary Boolean model. (English summary) **99j:62136**
Syversveen, Anne Randi *see* **Rue, Håvard, 99b:62149**

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Arjas, Elja *see* **Heikkinen, Juha, 99j:62035**
Chatterjee, Aditya *see* **Mukherjee, Indranil; et al., 99j:62036**

Fedorov, Valerii V. Design of spatial experiments: model fitting and prediction. (*see* **99f:62002**)
Ghosh, Himadri *see* **Mukherjee, Indranil; et al., 99j:62036**
Gneiting, Tilmann Simple tests for the validity of correlation function models on the circle. (English summary) **99i:62191**
Green, Peter J. *see* **Pievatolo, A., 99a:62125**
Hahn, Ute (*with* Stoyan, Dietrich) Unbiased stereological estimation of the surface area of gradient surface processes. (English summary) **99k:60019**
Heikkinen, Juha (*with* Arjas, Elja) Non-parametric Bayesian estimation of a spatial Poisson intensity. (English summary) **99j:62035**
Ibarrola Muñoz, María del Pilar (*with* Różański, Roman; Vélez Ibarrola, Ricardo) On estimation of the mean and covariance parameter for Gaussian random fields. (English summary) **99b:62150**
Martin, Richard John Spatial experimental design. (*see* **99f:62002**)
Mohapl, Jaroslav On maximum likelihood estimation for Gaussian spatial autoregression models. (English summary) **99c:62258**
Mukherjee, Indranil (*with* Ghosh, Himadri; Chatterjee, Aditya) A numerical Bayesian approach to spatial data analysis. (English summary) **99j:62036**
Pievatolo, A. (*with* Green, Peter J.) Boundary detection through dynamic polygons. (English summary) **99a:62125**
Różański, Roman *see* **Ibarrola Muñoz, María del Pilar; et al., 99b:62150**
Stoyan, Dietrich Models of random sets and figures. (English summary) **99i:60025**
— *see also* **Hahn, Ute, 99k:60019**
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62M40 Random fields

Benn, A. G. (*with* Kulperger, R. J.) A remark on a Fourier bounding method of proof for convergence of sums of periodograms. (English summary) **99c:62274**
Besag, Julian *see* **Tjelmeland, Håkon**
Butler, Neil A. A frequency domain comparison of estimation methods for Gaussian fields. (English summary)
Ginovyan, M. S. Asymptotic properties of estimates for the spectrum of a homogeneous Gaussian field. (Russian. Armenian summary) **99i:62230**
Heckman, Nancy (*with* Rice, John A.) Line transects of two-dimensional random fields: estimation and design. (English and French summaries) **99k:62180**
Ibarrola Muñoz, María del Pilar (*with* Różański, Roman; Vélez Ibarrola, Ricardo) On estimation of the mean and covariance parameter for Gaussian random fields. (English summary) **99b:62150**
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Leonenko, Nikolai N. (*with* Šilac-Benšić, M.) On estimation of regression coefficients of long memory random fields observed on the arrays. (English summary) **99c:62275**
Li, Ta-Hsin (*with* North, Gerald R.) Aliasing effects and sampling theorems of spherical random fields when sampled on a finite grid. (English summary) **99c:62276**
North, Gerald R. *see* **Li, Ta-Hsin, 99c:62276**
Rice, John A. *see* **Heckman, Nancy, 99k:62180**
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Šilac-Benšić, M. *see* **Leonenko, Nikolai N., 99c:62275**
Tjelmeland, Håkon (*with* Besag, Julian) Markov random fields with higher-order interactions. (English summary)
Vélez Ibarrola, Ricardo *see* **Ibarrola Muñoz, María del Pilar; et al., 99b:62150**

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Chan, A. (*with* Meloche, J.) Image restoration. (English summary) **99g:62072**
Cheong, Young-Ho *see* **Provost, Serge B., 99e:62017**
Chu, Chih Kang (*with* Glad, Ingrid K.; Godtliebsen, F.; Marron, J. Stephen) Edge-preserving smoothers for image processing. (English summary) **99b:94009**
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Müller-Gronbach, Thomas Hyperbolic cross designs for approximation of random fields. (English summary) **99c:62272**
Provost, Serge B. (*with* Cheong, Young-Ho) The probability content of cones in isotropic random fields. (English summary) **99e:62017**
Vajda, Igor (*with* Janžura, Martin) On asymptotically optimal estimates for general observations. (English summary) **99c:62062**

62M99 None of the above, but in this section

Ahmed, Mohamed A. (*with* Al-Khamis, Talal M.; Miller, Douglas R.) Time-inhomogeneous discrete stochastic search methods for optimal Bernoulli parameters. (English summary) **99i:62231**
Al-Khamis, Talal M. *see* **Ahmed, Mohamed A.; et al., 99i:62231**
Bosq, Denis ★ Nonparametric statistics for stochastic processes. (English summary) **99d:62092**
Diaconis, Persi W. (*with* Sturmfels, Bernd) Algebraic algorithms for sampling from conditional distributions. (English summary) **99j:62137**
Dzhaparidze, K. O. (*with* Spreij, Peter; Valkeila, Esko) On Hellinger processes for parametric families of experiments. (English summary) **99m:62147**
Greenwood, Priscilla E. (*with* Wefelmeyer, Wolfgang) Cox's factoring of regression model likelihoods for continuous-time processes. (English summary) **99i:62232**
Häggström, Olle (*with* Nelander, K.) Exact sampling from anti-monotone systems. (English summary) **99i:62233**
Hurn, Merrilee A. (*with* Rue, Håvard; Sheehan, Nuala A.) Block updating in constrained Markov chain Monte Carlo sampling. (English summary) **99j:62138**
(Ishwaran, Hemant) *see* **Roberts, Gareth O., 99h:62123**
Janardan, K. G. A stochastic model for the number of accidents and a class of distributions for the number of fatalities. (English summary) **99m:62148**
Kakizawa, Yoshihide *see* **Sato, Toshiyuki; et al., 99k:62181**
Keller, Gerhard A new estimator for information dimension with standard errors and confidence intervals. (English summary) **99e:62169**
Kent, John T. (*with* Wood, Andrew T. A.) Estimating the fractal dimension of a locally self-similar Gaussian process by using increments. (English summary) **99a:62136**
Küchler, Uwe (*with* Sørensen, Michael) On exponential families of Markov processes. (English summary) **99g:62145**
Léon, Larry F. (*with* Tsai, Chih-Ling) Assessment of model adequacy for Markov regression time series models. (English and French summaries)
(Madras, Neal) *see* **Roberts, Gareth O., 99h:62123**
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Roberts, Gareth O. (*with* Rosenthal, Jeffrey S.) Markov-chain Monte Carlo: some practical implications of theoretical results. (English and French summaries) **99h:62123**
Rosenthal, Jeffrey S. *see* **Roberts, Gareth O., 99h:62123**
Rue, Håvard *see* **Hurn, Merrilee A.; et al., 99j:62138**
Sato, Toshiyuki (*with* Kakizawa, Yoshihide; Taniguchi, Masanobu) Large deviation results for statistics of short- and long-memory Gaussian processes. (English summary) **99k:62181**
Sheehan, Nuala A. *see* **Hurn, Merrilee A.; et al., 99j:62138**
Siegmund, David Genetic linkage analysis: an irregular statistical problem. (English summary) **99e:62170**
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Zacks, Shelemyahu (*with* Wang, Xiao Dong[2]) Estimation of variance components in dynamic linear models. (English summary) **99k:62182**

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Bosq, Denis (*with* Nguyen, Hung T.) ★ A course in stochastic processes. (English summary) **99i:60001**
Chang, I-Shou (*with* Chen, Li-Ru; Hsiung, Chao A.) A class of efficient non-parametric K-sample tests for multivariate counting processes with frailties. (English summary) **99g:62054**
Chen, Li-Ru *see* **Chang, I-Shou; et al., 99g:62054**
Chen, Rong[1] *see* **Liu, Jun S., 99e:62069**
Chung, Shin-Ho *see* **Poskitt, Don S.; et al., 99i:62075**
Chuprunov, A. N. Functional limit theorems for observations of stochastic processes at a random time point. (English summary) **99g:60069**
Doğançay, K. *see* **Poskitt, Don S.; et al., 99i:62075**
Heyde, Christopher C. ★ Quasi-likelihood and its application. (English summary) **99f:62003**
Hsiung, Chao A. *see* **Chang, I-Shou; et al., 99g:62054**
Koehler, J. R. (*with* Owen, A. B.) Computer experiments. (*see* **99f:62002**)
Liu, Jun S. (*with* Chen, Rong[1]) Sequential Monte Carlo methods for dynamic systems. (English summary) **99e:62069**
Lumel'skiĭ, Ya. P. Markov random walks in the space of a sufficient statistic and statistical inference. **99i:62209**
Nguyen, Hung T. *see* **Bosq, Denis, 99i:60001**
Ordoukhani, N. *see* **Singh, Jagbir[1]; et al., 99j:62051**
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Peligrad, Magda On the blockwise bootstrap for empirical processes for stationary sequences. (English summary) **99g:62051**
Poskitt, Don S. (*with* Doğançay, K.; Chung, Shin-Ho) Double-blind deconvolution: the analysis of post-synaptic currents in nerve cells. (English summary) **99i:62075**
Roberts, Gareth O. (*with* Rosenthal, Jeffrey S.; Schwartz, Peter O.) Convergence properties of perturbed Markov chains. (English summary) **99c:60139**
Rosenthal, Jeffrey S. *see* **Roberts, Gareth O.; et al., 99c:60139**
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Singh, Jagbir[1] (*with* Ordoukhani, N.; Thavaneswaran, A.) A note on optimal smoothers for semimartingales. **99j:62051**
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62N05 Reliability and life testing [see also 90B25]

Achcar, Jorge Alberto Some aspects of reparametrization for inferences of k-out-of-m system reliability in the independent exponential case. (English summary)
— A generalized Moranda software reliability model: a Bayesian approach. (English summary) **99k:62183**
Adamidis, K. (*with* Loukas, S.) A lifetime distribution with decreasing failure rate. (English summary) **99i:62234**
Akahira, Masafumi *see* **Tanaka, Hidekazu, (99a:62005)**
Al-Mutairi, Dhaifalla K. (*with* Chen, Yiping; Singpurwalla, Nozer D.) An adaptive concatenated failure rate model for software reliability. (English summary)
Al-Nachawati, H. M. On new better than used in average at specific interval. (English summary)
— (*with* Alwasel, I. A.) On used-better-than-aged in convex ordering class of life distributions. (English summary) **99c:62277**
— *see also* **Alwasel, I. A., 99m:62149**
Alwasel, I. A. (*with* Al-Nachawati, H. M.) Shock models with exponential better than renewal in expectation property. (English summary) **99m:62149**

— Test for exponential better than renewal in expectation class of life distribution. (English summary) **99e:62171**
— *see also* **Al-Nachawati, H. M., 99c:62277**
Asha, G. (*with* Unnikrishnan Nair, N.) Bivariate failure rates in discrete time. (English summary) (*see* **99f:62011**)
Aydoğdu, Halil (*with* Öztürk, Fikri) Some monotonicity properties of the variance function in renewal processes. (English summary) **99k:62184**
Bagdonavičius, Vilijandas (*with* Nikulina, V. N.) A goodness-of-fit test for Sedyakin's model. (English summary) **99k:62185**
— (*with* Nikulin, Mikhail S.) ★ Additive and multiplicative semiparametric models in accelerated life testing and survival analysis. **99g:62146**
— (*with* Nikulin, Mikhail S.) On semiparametric estimation of reliability from accelerated life data. (English summary) (*see* **99h:60004**)
Barlow, Richard E. ★ Engineering reliability. (English summary) **99m:62150**
Basu, Asit P. Some bivariate distributions useful in reliability theory. (*see* **99g:62003**)
— *see also* **Sun, Dongchu; et al.**
Bhattacharjee, Manish C. *see* **Sen, Pranab Kumar[1], (99g:62003)**
Brassolatti, Daniela (*with* Louzada-Neto, Francisco) Bayesian analysis of the reliability function of products subjected to accelerated tests: the exponential case. (Portuguese. Portuguese summary)
Brown, Edward F. *see* **Hassanein, Khatab M.**
Chaubey, Yogendra P. (*with* Sen, Pranab Kumar[1]) On smooth estimation of hazard and cumulative hazard functions. **99j:62139**
Chaudhuri, Gopal On the reliability function of a k-out-of-n system of components sharing a common environment. (English summary) **99i:62235**
— *see also* **Sarkar, Jyotirmoy**
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Cho, Young-Suk *see* **Kang, Suk-Bok**
Cramer, Erhard (*with* Kamps, Udo) Maximum likelihood estimation with different sequential k-out-of-n systems. (English summary) **99f:62118**
Crowder, Martin (*with* Kimber, Alan) A score test for the multivariate Burr and other Weibull mixture distributions. (English summary) **99a:62137**
Crowley, John *see* **Tsai, Wei Yann, 99k:62195**
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Dey, Sanku (*with* Sarmah, Pranita) Robustness of posteriors, the Bayes estimators and reliability under a class of priors in an I.F.R. distribution. (English summary)
Dhar, Debjyoti (*with* Mukhopadhyay, A. C.) Nonparametric estimation of component survival function in $K-1$ out of K system and its application under random censoring with proportional hazard assumption. **99k:62186**
Dhar, Sunil K. Data analysis with discrete analog of Freund's model. (English summary)
Dharmadhikari, A. D. (*with* Ghosh, Jayanta K.; Kuber, M. M.) On NBUE property of one component system supported by an inactive standby and a repair facility. (English summary) **99f:62119**
Dieulle, Laurence Fiabilité de plusieurs groupes de composants avec maintenance à des instants aléatoires. (English and French summaries) [Reliability of several sets of components with inspection at random times] **99i:62236**
Dorado, Crisanto (*with* Hollander, Myles; Sethuraman, Jayaram) Nonparametric estimation for a general repair model. (English summary) **99b:62151**
Ebrahimi, Nader How to measure uncertainty in the residual life time distribution. (English summary) **99j:62140**
Ehrlich, W. K. *see* **Nair, V. N.; et al., 99a:62140**
Escobar, Luis A. (*with* Meeker, William Q.) Fisher information matrices with censoring, truncation, and explanatory variables. (English summary) **99a:62138**
Faraggi, David (*with* Simon, Richard) Bayesian variable selection method for censored survival data. (English and French summaries) **99k:62187**
Fei, He Liang *see* **Tang, Yin Cai**
Franz, Jürgen On statistics in failure-repair models under censoring. (English summary) (*see* **99f:62004**)
Gao, J. T. *see* **Pettitt, Anthony N.; et al., 99e:62173**
Gasmi, Sofiane (*with* Kahle, Waltraud) Parameter estimation in renewal processes with imperfect repair. (English summary) (*see* **99f:62004**)
Gerville-Reache, Leo (*with* Nikulina, V. N.) Analysis of reliability characteristics estimators in accelerated life testing. (English summary) (*see* **99h:60004**)
Ghorai, J. K. (*with* Schmitter, J.) The asymptotic distribution of the suprema of the standardized empirical processes under the Koziol-Green model. (English summary) **99k:62188**
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Goh, T. N. *see* **Tang, L. C.; et al., 99i:62239**
Gupta, Pushpa L. (*with* Gupta, Ramesh C.) A general approach of studying random environmental models. (English summary) (*see* **99f:62011**)
— *see also* **Gupta, Ramesh C.; et al., 99c:62278**
Gupta, Ramesh C. (*with* Gupta, Pushpa L.; Gupta, Rameshwar D.) Modeling failure time data by Lehman alternatives. (English summary) **99c:62278**
— *see also* **Gupta, Pushpa L., (99f:62011)**
Gupta, Rameshwar D. *see* **Gupta, Ramesh C.; et al., 99c:62278**
Han, Ming Hierarchical Bayesian estimation of failure rates from exponentially distributed zero-failure data. (Chinese. English and Chinese summaries)
Hanagal, David D. Estimation of system reliability in stress-strength models for distributions useful in life testing. (English summary)
Hassanein, Khatab M. (*with* Brown, Edward F.) Estimation of reliability when times to failure follow the Rayleigh distribution. (English summary)
Hawkins, Doyle L. (*with* Kochar, Subhash) Inference about the transition-point in NBUE-NWUE or NWUE-NBUE models. (English summary) **99k:62189**
Henderson, Robin (*with* Oman, Paul John) Effect of frailty on marginal regression estimates in survival analysis. (English summary)
Herberts, Tina (*with* Jensen, Uwe) Some remarks on dependent censoring in complex systems. (English summary) (*see* **99f:62004**)
Hollander, Myles *see* **Dorado, Crisanto; et al., 99b:62151**
Hu, Ping[2] (*with* Tsiatis, Anastasios A.; Davidian, Marie) Estimating the parameters in the Cox model when covariate variables are measured with error. (English and French summaries)
Hu, X. Joan (*with* Lawless, Jerald F.) Estimation from truncated lifetime data with supplementary information on covariates and censoring times. (English summary) **99c:62279**
Huang, Weihua *see* **Kong, Fan Hui[1]; et al., 99k:62191**
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Experimental designs ★ Plans d'expériences. (French) [Experimental designs] **99a:62101**
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Bates, David S. Testing option pricing models. **99h:62133**
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Biørn, Erik (*with* Klette, Tor Jakob) Panel data with errors-in-variables: essential and redundant orthogonality conditions in GMM-estimation. (English summary)
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Wang, Liqun Estimation of censored linear errors-in-variables models. (English summary) **99b:62167**
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Wolf, Frauke ★ Lorenzkurvendisparität. (German. German summary) [Disparity of Lorenz curves] **99c:62293**
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Andrews, Donald W. K. A conditional Kolmogorov test. (English summary) **99b:62020**
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Banerjee, Anindya[1] (*with* Dolado, Juan J.; Mestre, Ricardo) Error-correction mechanism tests for cointegration in a single-equation framework. (English summary) **99i:62197**
Bierens, Herman J. (*with* Ploberger, Werner) Asymptotic theory of integrated conditional moment tests. (English summary) **99a:62086**
Breitung, Jörg (*with* Franses, Philip Hans) On Phillips-Perron-type tests for seasonal unit roots. (English summary) **99c:62242**
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— The estimation of systems of joint differential-difference equations. (English summary) **99b:62128**
Chen, Xiaohong[1] (*with* White, Halbert) Central limit and functional central limit theorems for Hilbert-valued dependent heterogeneous arrays with applications. (English summary) **99c:60007**
Cheung Ip, Wai (*with* Phillips, Garry D. A.) The non-monotonicity of the bias and mean squared error of the two stage least squares estimators of exogenous variable coefficients. (English summary) **99i:62039**
Chib, Siddhartha Estimation and comparison of multiple change-point models. (English summary) **99k:62156**
Choi, In (*with* Park, Joon Y.; Yu, Byungchul) Canonical cointegrating regression and testing for cointegration in the presence of $I(1)$ and $I(2)$ variables. (English summary) **99c:62245**
Comte, F. Discrete and continuous time cointegration. (English summary) **99i:62200**
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Diebold, Francis X. (*with* Lopez, Jose A.) Forecast evaluation and combination. **99h:62121**
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Engle, Robert F. (*with* Russell, Jeffrey R.) Autoregressive conditional duration: a new model for irregularly spaced transaction data. (English summary)
Feng, Yuanhua (*with* Heiler, Siegfried) Locally weighted autoregression. (English summary) **99g:62134**
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Gilli, Manfred H. (*with* Pauletto, Giorgio) Krylov methods for solving models with forward-looking variables. (English summary) **99c:90038**
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Granger, Clive W. J. (*with* Teräsvirta, Timo) A simple nonlinear time series model with misleading linear properties. (English summary) **99k:62161**
den Haan, Wouter J. (*with* Levin, Andrew T.) A practitioner's guide to robust covariance matrix estimation. (*see* **99d:62025**)
Hahn, Jinyong *see* **Buchinsky, Moshe**, 99e:62039
Hansen, Lars Peter (*with* Scheinkman, José Alexandre; Touzi, Nizar) Spectral methods for identifying scalar diffusions. (English summary) **99m:62136**
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Jeganathan, P. On asymptotic inference in linear cointegrated time series systems. (English summary) **99k:62165**
Juillard, Michel (*with* Laxton, Douglas; McAdam, Peter; Pioro, Hope) An algorithm competition: first-order iterations versus Newton-based techniques. (English summary) **99m:90052**
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Koenker, Roger Rank tests for linear models. (*see* **99d:62025**)
Krämer, Walter (*with* Hassler, Uwe) Limiting efficiency of OLS vs. GLS when regressors are fractionally integrated. (English summary) **99g:62092**
— Fractional integration and the augmented Dickey-Fuller test. (English summary) **99j:62127**
(Kreps, David M.) *see* **Advances in economics and econometrics: theory and applications**, 99d:90003
(Küchenhoff, Helmut) *see* **Econometrics in theory and practice**, 99f:62007
Kwan, Yum K. Asymptotic Bayesian analysis based on a limited information estimator. (English summary) **99m:62034**
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Rydberg, Tina Hviid ★ Some modelling results in the area of interplay between statistics, mathematical finance, insurance and econometrics. (English summary) **99g:62001**
Scaillet, Olivier *see* **Broze, Laurence; et al.**, 99d:62083
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Smith, Richard J. (*with* Taylor, A. M. Robert) Additional critical values and asymptotic representations for seasonal unit root tests. (English summary) **99d:62087**
Steel, Mark F. J. Bayesian analysis of stochastic volatility models with flexible tails. (English summary) **99c:62264**
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Thamerus, Markus Different nonlinear regression models with incorrectly observed covariates. (English summary) (*see* **99f:62007**)
Toda, Hiro Y. *see* **Yamada, Hiroshi[3]**, 99m:62145
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Tsay, Wen-Jen On the power of Durbin-Watson statistic against fractionally integrated processes. (English summary) **99i:62220**
Vogelsang, Timothy J. Wald-type tests for detecting breaks in the trend function of a dynamic time series. (English summary) **99c:62267**
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Whang, Yoon-Jae A test of autocorrelation in the presence of heteroskedasticity of unknown form. (English summary) **99k:62174**
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Yamada, Hiroshi[3] (*with* Toda, Hiro Y.) Inference in possibly integrated vector autoregressive models: some finite sample evidence. (English summary) **99m:62145**
Yang, Minxian System estimators of cointegrating matrix in absence of normalising information. (English summary) **99b:62144**
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Zheng, John Xu Consistent specification testing for conditional symmetry. (English summary) **99c:62139**
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Congress:
Econometric Society ★ Advances in economics and econometrics: theory and applications. Vol. I, II, III. **99d:90003**
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Festschrift:
Schneeweiss, Hans ★ Econometrics in theory and practice. **99f:62007**
Tokyo ★ Advances in economics and econometrics: theory and applications. Vol. I, II, III. **99d:90003**

62P25 Applications to social sciences

Robins, James M. Causal inference from complex longitudinal data. **99m:62166**

62P99 None of the above, but in this section

Boyett, James M. *see* **Luo, Xiaolong, 99b:62168**
Grenander, Ulf Strategies for seeing. (English summary) (*see* **99e:00025**)
Luo, Xiaolong (*with* Boyett, James M.) Estimations of a threshold parameter in Cox regression. (English summary) **99b:62168**
Tsigroshvili, Z. P. On a model with a large number of rare events. (Russian. English and Georgian summaries)

Items with secondary classifications in 62P99

Adam, Mircea An algorithm for computing the optimal estimator of a regionalized variable in the presence of a drift. (English summary)
Silliman, Nancy Paul Nonparametric classes of weight functions to model publication bias. (English summary) **99c:62068**

62Q05 Statistical tables

65–XX Numerical analysis

65–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

(Ciarlet, Philippe G.) *see* **Handbook: Numerical analysis, 99h:65001**
(Lions, Jacques-Louis) *see* **Handbook: Numerical analysis, 99h:65001**

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Handbook:
Numerical analysis ★ Handbook of numerical analysis. Vol. VI. **99h:65001**

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Kythe, Prem K. ★ Computational conformal mapping. (English summary) **99k:65027**
Mackerle, Jaroslav Finite elements and boundary elements applied in phase change, solidification and melting problems. A bibliography (1996–1998). (English summary)
Schneider, John B. *see* **Shlager, Kurt L., (99c:78001)**
Shlager, Kurt L. (*with* Schneider, John B.) A survey of the finite-difference time-domain literature. (*see* **99c:78001**)

65–01 Instructional exposition (textbooks, tutorial papers, etc.)

Backstrom, Gunnar ★ Waves by finite element analysis. (English summary)
Blobel, Volker (*with* Lohrmann, Erich) ★ Statistische und numerische Methoden der Datenanalyse. (German) [Statistical and numerical methods of data analysis]
Bultheel, Adhemar (*with* Van Barel, Marc) ★ Linear algebra, rational approximation and orthogonal polynomials. **99e:65001**
Burden, Richard *see* **Faires, J. Douglas**
Faires, J. Douglas (*with* Burden, Richard) ★ Numerical methods.
Herzberger, Jürgen ★ Übungsbuch zur numerischen Mathematik. (German. German summary) [Exercise book for numerical mathematics]
(Kern, Michel) *see* **Lucquin-Desreux, Brigitte, 99f:65002**
Kress, Rainer ★ Numerical analysis. (English summary) **99c:65001**
Lempio, Frank Numerische Mathematik. II. Methoden der Analysis. [Numerical mathematics. II. Methods of analysis] **99f:65001**
Lohrmann, Erich *see* **Blobel, Volker**
Lucquin-Desreux, Brigitte (*with* Pironneau, Olivier) ★ Introduction to scientific computing. (English summary) **99f:65002**
Pang, Tao ★ An introduction to computational physics. (English summary) **99d:65001**
Pironneau, Olivier *see* **Lucquin-Desreux, Brigitte, 99f:65002**
Schwarz, Hans Rudolf ★ Numerische Mathematik. (German) [Numerical mathematics] **99f:65003**
Tveito, Aslak (*with* Winther, Ragnar) ★ Introduction to partial differential equations. (English summary) **99k:65001**
Van Barel, Marc *see* **Bultheel, Adhemar, 99e:65001**
(Waldvogel, Jörg) *see* **Schwarz, Hans Rudolf, 99f:65003**
Winther, Ragnar *see* **Tveito, Aslak, 99k:65001**

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Ascher, Uri M. (*with* Petzold, Linda R.) ★ Computer methods for ordinary differential equations and differential-algebraic equations. (English summary) **99k:65052**
Betounes, David ★ Partial differential equations for computational science. (English summary) **99g:35001**
Bonnans, J. Frédéric (*with* Gilbert, Jean Charles; Lemaréchal, Claude; Sagastizábal, Claudia) ★ Optimisation numérique. (French. French summary) [Numerical optimization] **99f:90001**
Gilbert, Jean Charles *see* **Bonnans, J. Frédéric; et al., 99f:90001**
Goedecker, Stefan ★ Wavelets and their application. (English summary) **99m:00014**
Judd, Kenneth L. ★ Numerical methods in economics. (English summary) **99i:90005**
Lemaréchal, Claude *see* **Bonnans, J. Frédéric; et al., 99f:90001**
Paumier, Jean-Claude ★ Bifurcations et méthodes numériques. (French. French summary) [Bifurcations and numerical methods] **99k:00003**
Petzold, Linda R. *see* **Ascher, Uri M., 99k:65052**
Powers, David L. ★ Boundary value problems. (English summary) **99k:35002**
Ross, Sheldon M. ★ Simulation. **99c:65013**
Sagastizábal, Claudia *see* **Bonnans, J. Frédéric; et al., 99f:90001**

65–02 Research exposition (monographs, survey articles)

Brezinski, Claude ★ Projection methods for systems of equations. **99f:65004**
Brugnano, Luigi (*with* Trigiante, Donato) ★ Solving differential problems by multistep initial and boundary value methods. (English summary) **99m:65001**
(Chan, Raymond H.) *see* **Iterative methods in scientific computing, 99g:65001**
(Chan, Tony F. C.) *see* **Iterative methods in scientific computing, 99g:65001**
(Chuyan, Olga) *see* **Sukharev, Aleksei G., 99i:65002**
Dahlke, Stephan (*with* Dahmen, Wolfgang; DeVore, Ronald A.) Nonlinear approximation and adaptive techniques for solving elliptic operator equations. (English summary) **99a:65001**
Dahmen, Wolfgang *see* **Dahlke, Stephan; et al., 99a:65001**
DeVore, Ronald A. *see* **Dahlke, Stephan; et al., 99a:65001**
Dupré, L. R. *see* **Van Keer, Roger, 99m:65002**
(Golub, Gene H.) *see* **Iterative methods in scientific computing, 99g:65001**
Kyurkchiev, Nikolaĭ V. ★ Initial approximations and root finding methods. (English summary) **99h:65002**
Li, Shou Fu A survey of the theory of numerical methods for nonlinear stiff problems. (Chinese. English and Chinese summaries)
Li, Zi Cai ★ Combined methods for elliptic equations with singularities, interfaces and infinities. (English summary) **99i:65001**
Sukharev, Aleksei G. ★ Minimax models in the theory of numerical methods. **99i:65002**
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Van Keer, Roger (*with* Dupré, L. R.) Finite element methods for nonlinear elliptic and parabolic problems with memory properties. **99m:65002**

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Hong Kong ★ Iterative methods in scientific computing. **99g:65001**
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School:
Iterative Methods in Scientific Computing and their Applications ★ Iterative methods in scientific computing. **99g:65001**

Items with secondary classifications in 65–02

Adachi, T. *see* **Jameson, Leland; et al.**
Brunner, Hermann The use of splines in the numerical solution of differential and Volterra integral equations. (English summary) (*see* **99i:65005**)
Carey, Graham F. ★ Computational grids. (English summary) **99b:65161**
Case, James Howard Interval arithmetic and analysis.
Chen, Zhongying *see* **Li, Rong Hua; et al., (99g:65002)**
Cochelin, B. *see* **Najah, A.; et al., 99a:73136**
Cunningham, G. S. *see* **Hanson, K. M.; et al., (99k:62005)**
Damil, N. *see* **Najah, A.; et al., 99a:73136**
Dornseifer, Thomas *see* **Griebel, Michael; et al., 99a:76078**
(Ernst, Oliver) *see* **Griebel, Michael; et al., 99a:76078**
Fu, Michael C. (*with* Hu, Jian-Qiang) ★ Conditional Monte Carlo. (English summary) **99b:65002**
Gershenfeld, Neil ★ The nature of mathematical modeling. (English summary) **99i:00010**
Greiner, Günther Modeling of curves and surfaces based on optimization techniques. (English summary) (*see* **99g:65003**)
Griebel, Michael (*with* Dornseifer, Thomas; Neunhoeffer, Tilman) ★ Numerical simulation in fluid dynamics. **99a:76078**
Häfner, Hartmut *see* **Weiss, Rüdiger; et al., (99i:00028)**
Hanson, K. M. (*with* Cunningham, G. S.; Saquib, S. S.) Inversion based on computational simulations. (English summary) (*see* **99k:62005**)
van der Houwen, P. J. (*with* Sommeijer, B. P.) CWI contributions to the development of parallel Runge-Kutta methods. (English summary) (*see* **99g:65011**)
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Korotov, Sergey ★ Variational crimes and equilibrium finite elements in three-dimensional space. **99b:65144**
Krommer, Arnold R. (*with* Ueberhuber, Christoph W.) ★ Computational integration. (English summary) **99g:65027**
(Kutateladze, S. S.) *see* **Sobolev, Sergeĭ L'vovich, 99g:65029b**
Li, Rong Hua (*with* Chen, Zhongying; Wu, Wei[1]) A survey on generalized difference methods and their analysis. (English summary) (*see* **99g:65002**)
Najah, A. (*with* Cochelin, B.; Damil, N.; Potier-Ferry, Michel) A critical review of asymptotic numerical methods. (English summary) **99a:73136**
Neuberger, J. W. ★ Sobolev gradients and differential equations. **99g:35003**
Neunhoeffer, Tilman *see* **Griebel, Michael; et al., 99a:76078**
Petković, Ljiljana D. *see* **Petković, Miodrag S., 99m:65103**
Petković, Miodrag S. (*with* Petković, Ljiljana D.) ★ Complex interval arithmetic and its applications. (English summary) **99m:65103**
Plaskota, Leszek ★ Noisy information and computational complexity. (English summary) **99b:65189**
Potier-Ferry, Michel *see* **Najah, A.; et al., 99a:73136**
(Ramazanov, M. D.) *see* **Sobolev, Sergeĭ L'vovich, 99g:65029a**
Saquib, S. S. *see* **Hanson, K. M.; et al., (99k:62005)**
Schönauer, Willi *see* **Weiss, Rüdiger; et al., (99i:00028)**
Sobolev, Sergeĭ L'vovich (*with* Vaskevich, V. L.) ★ Кубатурные формулы. (Russian) [Cubature formulas] **99g:65029a**
— (*with* Vaskevich, V. L.) ★ The theory of cubature formulas. (English summary) **99g:65029b**
Sommeijer, B. P. *see* **van der Houwen, P. J., (99g:65011)**
Tsynkov, S. V. Numerical solution of problems on unbounded domains. A review. (English summary) **99i:65116**
Ueberhuber, Christoph W. *see* **Krommer, Arnold R., 99g:65027**
Ukai, O. *see* **Jameson, Leland; et al.**
Vaskevich, V. L. *see* **Sobolev, Sergeĭ L'vovich, 99g:65029a** *and* **99g:65029b**
Walker, James Stephan ★ A primer on wavelets and their scientific applications. (English summary) **99m:42001**
Weiss, Rüdiger (*with* Häfner, Hartmut; Schönauer, Willi) Overview on solvers for linear equations. (English summary) (*see* **99i:00028**)
Wu, Wei[1] *see* **Li, Rong Hua; et al., (99g:65002)**
Yuasa, A. *see* **Jameson, Leland; et al.**

65–03 Historical (must also be assigned at least one classification number from Section 01)

Brandt, Achi The Gauss Center research in multiscale scientific computation. (English summary) **99a:65002**
(Faddeev, D. K.) *see* **Kublanovskaya, V. N.**
Hackbusch, Wolfgang From classical numerical mathematics to scientific computing. (English summary) **99j:65001**
Kublanovskaya, V. N. D. K. Faddeev's contribution to the development of computational methods in linear algebra. (Russian)

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Farouki, Rida T. (*with* Rampersad, Joanne) Cycles upon cycles: an anecdotal history of higher curves in science and engineering. (English summary) **99d:01003**

Kosheleva, Olga M. Hilbert problems (almost) 100 years later (from the viewpoint of interval computations).

Pan, Victor Y. Solving a polynomial equation: some history and recent progress. (English summary) **99b:65066**

Rampersad, Joanne *see* **Farouki, Rida T., 99d:01003**

Solaeche Galera, María Cristina The algorithm of elementary operations and the reduced echelon matrix: millennial Oriental concepts. (Spanish. English and Spanish summaries) **99g:01007**

Wang, Rongbin On Liu Yi's positive-negative root extraction algorithm. (English summary) **99i:01011**

65–04 Explicit machine computation and programs (not the theory of computation or programming)

Aguirregabiria, J. M. (*with* Bel, Lluís; Hernández Martin, Aníbal; Rivas, M.) Regular order reductions of ordinary and delay-differential equations. (English summary)

Albertsen, Niels Christian (*with* Chesneaux, Jean-Marie; Christiansen, Søren; Wirgin, Armand) Comparison of four software packages applied to a scattering problem. (English summary)

Bel, Lluís *see* **Aguirregabiria, J. M.; et al.**

Breinholt, Greg (*with* Schierz, Christoph) Algorithm 781: generating Hilbert's space-filling curve by recursion. (English summary)

Brenig, Léon *see* **Rocha Filho, Tarcísio M.; et al.**

Calderón Segura, Apolinar BROYDT: Fortran subroutines for solving systems of nonlinear equations with singular Jacobians. (Spanish. Spanish summary) (*see* **99f:00013**)

Chesneaux, Jean-Marie *see* **Albertsen, Niels Christian; et al.**

Chi, Xue Bin *see* **Wu, Jian Ping**

Christiansen, Søren *see* **Albertsen, Niels Christian; et al.**

Cooperman, Gene Practical task-oriented parallelism for Gaussian elimination in distributed memory. (English summary) (*see* **99a:00039**)

Crann, Diane *see* **Davies, Alan J.**

Cyganowski, S. A MAPLE package for stochastic differential equations. (*see* **99g:00035**)

Davies, Alan J. (*with* Crann, Diane) The boundary element method on a spreadsheet. (English summary)

Eyssette, F. *see* **Tadjouddine, M.; et al.,** (**99i:68005**)

Faure, C. *see* **Tadjouddine, M.; et al.,** (**99i:68005**)

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Numerical Solution of Thin-layer Phenomena ★ {International Workshop on the Numerical Solution of Thin-layer Phenomena}. **99a:65009**
Parallel Algorithms for Irregularly Structured Problems ★ Parallel algorithms for irregularly structured problems. **99g:65007**
Spline Functions and the Theory of Wavelets ★ Spline functions and the theory of wavelets. **99i:65005**
Stochastic Numerics ★ Kakuritsu sūchi kaiseki ni okeru sho mondai. III. (Japanese) [Problems in stochastic numerical analysis. III] **99f:65007**
Use of Iterative Methods for Large Scale Eigenvalue Problems ★ Large scale eigenvalue problems. **99h:65006**
Visualization and Mathematics ★ Mathematical visualization. **99k:65005**
York ★ The state of the art in numerical analysis. **99a:65008**

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(Babuška, Ivo M.) *see* **Conference: Numerical Methods and Computational Mechanics in Science and Engineering, 99b:73001**
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(Bunse-Gerstner, Angelika) *see* **Special Issue: Celebrating the 60th birthday of Ludwig Elsner**
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Research on the theory and applications of computer algebra ★ Sūshiki shori ni okeru riron to ōyō no kenkyū. (Japanese) [Research on the theory and applications of computer algebra] **99h:00034**
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  Iterative Methods in Scientific Computing and their Applications ★ Iterative methods in scientific computing. **99g:65001**
  MATLAB 94, 95 ★ Summer Schools MATLAB 94, 95 Proceedings. **99a:00042**
Simplification of systems of algebraic and differential equations with applications ★ Simplification of systems of algebraic and differential equations with applications. **99a:00047**
Southampton ★ Boundary element research in Europe. **99k:73001**
Sozopol ★ Applications of mathematics in engineering. **99m:00024**
Special Issue:
  Celebrating the 60th birthday of Ludwig Elsner ★ Special issue celebrating the 60th birthday of Ludwig Elsner.
  Computational methods and bifurcation theory with applications ★ Computational methods and bifurcation theory with applications. **99k:34001**
Stuttgart ★ Boundary element topics. **99e:00017**
Symposium:
  Boundary Element ★ Boundary element research in Europe. **99k:73001**
  Differential Algebraic Equations ★ Differential algebraic equations. **99h:34001**
  Domain Decomposition Methods and Related Topics ★ Recent developments in domain decomposition methods and flow problems. **99g:00054**
  Flow Problems and Phase Field Models ★ Recent developments in domain decomposition methods and flow problems. **99g:00054**
  Research on Algorithms for Numerical Computing ★ Sūchi keisan arugorizumo no kenkyū. (Japanese) [Research on algorithms for numerical computing] **99i:00028**
  Research on the Theory and Applications of Computer Algebra ★ Sūshiki shori ni okeru riron to ōyō no kenkyū. (Japanese) [Research on the theory and applications of computer algebra] **99h:00034**
Systolic algorithms ★ Systolic algorithms.
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65A05 Tables

65Bxx Acceleration of convergence

65B05 Extrapolation to the limit, deferred corrections

Benazzouz, A. GL(E)-quasilinear transformations and acceleration. (English summary) **99f:65008**
Descombes, Stéphane (*with* Schatzman, Michelle) On Richardson extrapolation of Strang formula for reaction-diffusion equations. (English summary) **99i:65006**
Fdil, Abdelhaq Some results on convergence acceleration for the E-algorithm. (English summary) **99c:65004**
— Convergence acceleration by the $E_{+,\rho}$-algorithm. (English summary) **99i:65007**
Homeier, Herbert H. H. On the stability of the $\mathcal{F}$ transformation. (English summary) **99f:65009**
Meyer, Ralf Acceleration of superlinearly convergent sequences. (English summary) **99d:65009**
Schatzman, Michelle *see* **Descombes, Stéphane, 99i:65006**
Stalker, John A convergence speeding algorithm with applications to numerical integration. (English summary) **99j:65002**

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Al-Baali, M. Global and superlinear convergence of a restricted class of self-scaling methods with inexact line searches, for convex functions. (English summary) **99a:90148**
Brezinski, Claude (*with* Chehab, Jean-Paul) Nonlinear hybrid procedures and fixed point iterations. (English summary) **99e:65091**
— (*with* Redivo-Zaglia, M.; Rodriguez, Giuseppe; Seatzu, Sebastiano) Extrapolation techniques for ill-conditioned linear systems. (English summary) **99j:65069**
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Gualtieri, M. I. *see* **Costabile, F.; et al., 99h:41025**
Kzaz, M. Gaussian quadrature and acceleration of convergence. (English summary) **99c:41058**

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Rhanizar, B. On extrapolation methods in optimization. (English summary) **99a:90195**
Rodriguez, Giuseppe *see* **Brezinski, Claude; et al., 99j:65069**
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Serra, Stefano *see* **Costabile, F.; et al., 99h:41025**

65B10 Summation of series

Dahlquist, Germund On summation formulas due to Plana, Lindelöf and Abel, and related Gauss-Christoffel rules. I. (English summary) **99a:65010**
— On summation formulas due to Plana, Lindelöf and Abel, and related Gauss-Christoffel rules. II. (English summary) **99k:65007**
Dassiè, Silvia (*with* Vianello, Marco; Zanovello, Renato) Asymptotic summation of power series. (English summary) **99k:65008**
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Satsuma, Junkichi *see* **Nagai, Atsushi; et al., 99d:65010**
Tokihiro, Tetsuji *see* **Nagai, Atsushi; et al., 99d:65010**
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65B15 Euler-Maclaurin formula

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65B99 None of the above, but in this section

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— *see also* **Risler, Franck, 99h:73089**
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65Cxx Numerical simulation {For theoretical aspects, see 68U20.}

65C05 Monte Carlo methods

Aleksandrov, V. N. Efficient parallel Monte Carlo methods for matrix computations. (English summary) **99d:65011**
— *see also* **Dimov, Ivan T., 99j:65006**
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Kryuchkov, A. F. (*with* Sirenek, V. A.) On numerical-probabilistic methods for solving a three-dimensional hyperbolic diffusion equation. (Russian. Russian summary) **99b:65003**
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Kyncl, Jan Dominant eigenvalue problem for positive integral operators and its solution by Monte Carlo method. (English summary) **99b:65004**
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Marsaglia, George (*with* Tsang, Wai Wan) The Monty Python method for generating random variables. (English summary) **99k:65014**
Mascagni, Michael Parallel linear congruential generators with prime moduli. (English summary) **99d:65022**
Morohosi, Hozumi (*with* Fushimi, Masanori) Designing a uniform random number generator with approximate asymptotic randomness. (Japanese. English summary) (*see* **99f:65007**)
Oohama, Yasutada (*with* Kohda, Tohru) Constructions of piecewise linear maps generating Markov sources. (*see* **99a:00044**)
Rajagopalan, S. Raj *see* **Aiello, William A.; et al., 99m:65013**
Richardson, Sylvia *see* **Robert, Christian P., (99m:65012)**
Robert, Christian P. (*with* Richardson, Sylvia) Markov chain Monte Carlo methods. (*see* **99m:65012**)
Ruffo, Stefano *see* **Bonelli, Antonio, 99k:65013**
Schmid, Wolfgang Ch. Shift-nets: a new class of binary digital (t, m, s)-nets. (English summary) **99d:65023**
Sobol', I. M. (*with* Levitan, Yu. L.) A pseudo-random number generator for personal computers. (English summary) (*see* **99i:90003**)
Sterpu, M. *see* **Gorunescu, Florin; et al.** *and* **Gorunescu, Marina; et al.**
Strandt, Sibylle Quadratic congruential generators with odd composite modulus. (English summary) **99d:65024**
Struckmeier, Jens Generation of random variates using asymptotic expansions. (English summary) **99b:65008**
Sugita, Hiroshi A pseudorandom number generation method that utilizes irrational rotations—a numerical analysis approach using probability theory. (Japanese) (*see* **99a:00044**)
— Pseudorandom numbers from the viewpoint of computational complexity theory. (Japanese) (*see* **99f:65007**)
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Wang, Ru-Yun The equal area rectangular method for generating random variables. (*see* **99g:00046**)
Wong, J. Y. *see* **Kao, Chiang, 99c:65009**
Zhang, Run Chu *see* **Chen, Xi Ru; et al., 99a:65018**
Zhu, Li-Xing *see* **Chen, Xi Ru; et al., 99a:65018**

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Brennan, J. J. (*with* Geist, Bruce) Analysis of iterated modular exponentiation: the orbits of $x^a \bmod N$. (English summary) **99b:11086**
Choe, Geon Ho (*with* Kim, Chihurn; Kim, Dong Han) Applications of ergodic theory to pseudorandom numbers. (English summary) **99d:11084**
Dayantis, Jean Smoluchowski et les tests de fiabilité des générateurs de nombres pseudo-aléatoires. (English and French summaries) [Smoluchowski and reliability tests for pseudorandom-number generators] **99c:11100**
Devroye, Luc Binary search trees based on Weyl and Lehmer sequences. **99k:11122**
Ding, Cunsheng (*with* Helleseth, Tor) On cyclotomic generator of order r. (English summary) **99c:94029**
Eğecioğlu, Ömer (*with* Peinado, Marcus) Algorithms for almost-uniform generation with an unbiased binary source. (English summary) (*see* **99k:68008**)
Eichenauer-Herrmann, Jürgen (*with* Herrmann, Eva; Wegenkittl, Stefan) A survey of quadratic and inversive congruential pseudorandom numbers. (English summary) **99d:11085**
— (*with* Niederreiter, Harald) Lower bounds for the discrepancy of triples of inversive congruential pseudorandom numbers with power of two modulus. (English summary) **99m:11086**
Emmerich, Frank Equidistribution properties of compound inversive pseudorandom vectors. (English summary) **99b:11087**
Fang, Kai-Tai *see* **Kotz, Samuel; et al., 99a:62006**
Faure, Henri Discrepancy lower bounds for special quasi-random sequences. (English summary) **99d:11080**
Fushimi, Masanori Definition of a finite random number sequence and pseudorandom number generation. (Japanese) (*see* **99a:00044**)
Geist, Bruce *see* **Brennan, J. J., 99b:11086**
Golić, Jovan D. Period of certain pseudorandom sequences. (English summary) **99j:94045**
(Hellekalek, Peter) *see* **Random and quasi-random point sets, 99g:11003**
Helleseth, Tor *see* **Ding, Cunsheng, 99c:94029**
Herrmann, Eva *see* **Eichenauer-Herrmann, Jürgen; et al., 99d:11085**
Kim, Chihurn *see* **Choe, Geon Ho; et al., 99d:11084**
Kim, Dong Han *see* **Choe, Geon Ho; et al., 99d:11084**
Kohda, Tohru (*with* Tsuneda, Akio) Chaotic binary sequences with their applications to communications. (English summary) **99d:94018**
Kolmogorov, A. N. On tables of random numbers.
Kotz, Samuel (*with* Fang, Kai-Tai; Liang, Jia-Juan) On multivariate vertical density representation and its application to random number generation. (English summary) **99a:62006**
Larcher, Gerhard A bound for the discrepancy of digital nets and its application to the analysis of certain pseudo-random number generators. **99j:11086**
— *see also* **Random and quasi-random point sets, 99g:11003**
L'Ecuyer, Pierre Tables of linear congruential generators of different sizes and good lattice structure. (English summary) **99c:11101**
Lenstra, Arjen K. Generating standard DSA signatures without long inversion. (English summary) **99a:94037**
Liang, Jia-Juan *see* **Kotz, Samuel; et al., 99a:62006**
Niederreiter, Harald (*with* Xing, Chaoping) The algebraic-geometry approach to low-discrepancy sequences. (English summary) **99d:11081**
— *see also* **Eichenauer-Herrmann, Jürgen, 99m:11086**
Ninomiya, Syoiti *see* **Tajima, Akira; et al., 99g:65012**
Pan, Xing-Chen (*with* Zheng, Quan[1]) Global optimum shape design. (English summary) (*see* **99i:90003**)
Patel, Sarvar (*with* Sundaram, Ganapathy S.) An efficient discrete log pseudo-random generator. (English summary) (*see* **99i:94059**)
Peinado, Marcus *see* **Eğecioğlu, Ömer, (99k:68008)**
Philippe, Anne (*with* Robert, Christian P.) Linking discrete and continuous chains. (*see* **99m:65012**)
Pincus, Steve (*with* Singer, Burton H.) A recipe for randomness. (English summary) **99d:11086**
Robert, Christian P. *see* **Philippe, Anne, (99m:65012)**
Sethumadhavan, M. On the discrepancy of pseudorandom numbers generated by quadratic method. (English summary) **99m:11087**
Shmoys, David B. Using linear programming in the design and analysis of approximation algorithms: two illustrative problems. (English summary) **99k:90104**
Singer, Burton H. *see* **Pincus, Steve, 99d:11086**
Sundaram, Ganapathy S. *see* **Patel, Sarvar, (99i:94059)**
Tajima, Akira (*with* Ninomiya, Syoiti; Tezuka, Shu) Analysis of the anomaly of ran1() generator in Monte Carlo pricing of financial derivatives. (English summary) **99g:65012**
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Wegenkittl, Stefan Are there hyperbolas in the scatter plots of inversive congruential pseudorandom numbers? (English summary) **99g:11096**
— *see also* **Eichenauer-Herrmann, Jürgen; et al., 99d:11085**
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Zuckerman, David Randomness-optimal oblivious sampling. (English summary) **99a:68062**

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Pseudorandom numbers and chaos ★ Giji ransū to kaosu. [Pseudorandom numbers and chaos] **99a:00044**
Random and quasi-random point sets ★ Random and quasi-random point sets. **99g:11003**
Symposium:
Pseudorandom Numbers and Chaos ★ Giji ransū to kaosu. [Pseudorandom numbers and chaos] **99a:00044**

65C20 Models, numerical methods

Belfiore, N. P. (*with* Esposito, Alessandra) Theoretical and experimental study of crossover operators of genetic algorithms. (English summary) **99g:65013**
Christakos, George *see* **Hristopulos, Dionissios T.; et al., 99d:65025**
Chung, Younshik Simulation of truncated gamma variables. (English summary) **99e:65007**
Cunningham, G. S. *see* **Hanson, K. M.; et al., (99k:62005)**

Esposito, Alessandra *see* **Belfiore, N. P., 99g:65013**
Green, Peter J. *see* **Murdoch, D. J.**
Greengard, Leslie (*with* Rokhlin, Vladimir V.) A new version of the fast multipole method for the Laplace equation in three dimensions. (English summary) **99c:65012**
Gu, Hai Ming Characteristic finite element methods for nonlinear Sobolev equations. (English summary) **99m:65015**
Hanson, K. M. (*with* Cunningham, G. S.; Saquib, S. S.) Inversion based on computational simulations. (English summary) (*see* **99k:62005**)
Hristopulos, Dionissios T. (*with* Christakos, George; Serre, Marc) Numerical implementation of a space-transformation approach for solving the three-dimensional flow equation. (English summary) **99d:65025**
Hrycak, Tomasz (*with* Rokhlin, Vladimir V.) An improved fast multipole algorithm for potential fields. (English summary) **99d:65026**
Mil′shteĭn, G. N. (*with* Platen, Eckhard; Schurz, H.) Balanced implicit methods for stiff stochastic systems. (English summary) **99a:65019**
Murdoch, D. J. (*with* Green, Peter J.) Exact sampling from a continuous state space. (English summary)
Okamoto, Hisashi A numerical solution method for potential problems. (Japanese) (*see* **99a:00036**)
Papadopoulos, C. A new technique for MTTF estimation in highly reliable Markovian systems. (English summary) **99j:65010**
Philippe, Anne Processing simulation output by Riemann sums. (English summary) **99d:65027**
Platen, Eckhard *see* **Mil′shteĭn, G. N.; et al., 99a:65019**
Pyt′ev, A. Yu. (*with* Pyt′ev, Yu. P.) On the effective dimension of a set of measurements. (Russian. Russian summary) **99d:65028**
Pyt′ev, Yu. P. *see* **Pyt′ev, A. Yu., 99d:65028**
Rokhlin, Vladimir V. *see* **Greengard, Leslie, 99c:65012** *and* **Hrycak, Tomasz, 99d:65026**
Ross, Sheldon M. ★ Simulation. **99c:65013**
Saquib, S. S. *see* **Hanson, K. M.; et al., (99k:62005)**
Schurz, H. *see* **Mil′shteĭn, G. N.; et al., 99a:65019**
Serre, Marc *see* **Hristopulos, Dionissios T.; et al., 99d:65025**
Speed, F. Michael (*with* Spiegelman, Clifford) Evaluating black boxes: an ad-hoc method for assessing nonparametric and nonlinear curve-fitting estimators. (English summary)
Spiegelman, Clifford *see* **Speed, F. Michael**

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Babovsky, Hans On a Monte Carlo scheme for Smoluchowski's coagulation equation. (English summary) **99m:65010**
Basdevant, Claude Wavelet based methods for PDEs. **99i:65152**
Bobylëv, A. V. *see* **Palczewski, Andrzej; et al., 99d:82068**
Bourdarias, C. Approximation of the solution to a system modeling heatless adsorption of gases. (English summary) **99c:65163**
Brenig, Léon *see* **Rocha Filho, Tarcísio M.; et al.**
Brooks, Stephen P. MCMC convergence diagnosis via multivariate bounds on log-concave densities. (English summary) **99d:65012**
Chen, Liang[8] (*with* Serfozo, Richard F.) Performance limitations of parallel simulations. (English summary) **99d:68031**
Cortez, Ricardo On the accuracy of impulse methods for fluid flow. (English summary) **99a:76109**
Diamond, Phil (*with* Kloeden, Peter E.; Kozyakin, V. S.; Pokrovskiĭ, A. V.) A model for roundoff and collapse in computation of chaotic dynamical systems. (English summary) **99a:58114**
Escher, Joachim (*with* Mayer, Uwe F.; Simonett, Gieri) The surface diffusion flow for immersed hypersurfaces. (English summary) **99f:58042**
Faragó, István (*with* Tarvainen, P.) Qualitative analysis of one-step algebraic models with tridiagonal Toeplitz matrices. (English summary) **99j:65072**
Fierro, Francesca (*with* Goglione, Roberta; Paolini, Maurizio) Numerical simulations of mean curvature flow in the presence of a nonconvex anisotropy. (English summary) **99k:58040**
Figueiredo, Annibal *see* **Rocha Filho, Tarcísio M.; et al.**
Gabetta, E. (*with* Pareschi, Lorenzo; Toscani, Giuseppe) Relaxation schemes for nonlinear kinetic equations. (English summary) **99c:76096**
Gershenfeld, Neil ★ The nature of mathematical modeling. (English summary) **99i:00010**
Goglione, Roberta *see* **Fierro, Francesca; et al., 99k:58040**
Grandmont, Céline (*with* Maday, Yvon) Analyse et méthodes numériques pour la simulation de phénomènes d'interaction fluide-structure. (French summary) [Numerical analysis and methods for the simulation of fluid-structure interaction phenomena] **99e:76040**
Holden, Lars Geometric convergence of the Metropolis-Hastings simulation algorithm. (English summary) **99h:60135**
Hyman, James M. (*with* Shashkov, Mikhail) Adjoint operators for the natural discretizations of the divergence, gradient and curl on logically rectangular grids. (English summary) **99c:39018**
Kloeden, Peter E. *see* **Diamond, Phil; et al., 99a:58114**
Kozyakin, V. S. *see* **Diamond, Phil; et al., 99a:58114**
Larsen, Edward W. *see* **Ueki, Taro, 99d:82069**
LeFloch, Philippe G. Dynamics of solid-solid phase interfaces via a level set approach. (English summary) **99k:73023**
Maday, Yvon *see* **Grandmont, Céline, 99e:76040**
Mayer, Uwe F. *see* **Escher, Joachim; et al., 99f:58042**
McMillen, Tyler *see* **Powell, James A.; et al., 99j:92027**
Palczewski, Andrzej (*with* Schneider, Jacques; Bobylëv, A. V.) A consistency result for a discrete-velocity model of the Boltzmann equation. (English summary) **99d:82068**
Paolini, Maurizio *see* **Fierro, Francesca; et al., 99k:58040**
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Pokrovskiĭ, A. V. *see* **Diamond, Phil; et al., 99a:58114**
Powell, James A. (*with* McMillen, Tyler; White, Peter William) Connecting a chemotactic model for mass attack to a rapid integro-difference emulation strategy. (English summary) **99j:92027**
Rocha Filho, Tarcísio M. (*with* Figueiredo, Annibal; Brenig, Léon) [QPSI] a MAPLE package for the determination of quasi-polynomial symmetries and invariants. (English summary)
Schmidt, Alfred Approximation of crystalline dendrite growth in two space dimensions. (English summary) **99k:80008**
Schneider, Jacques *see* **Palczewski, Andrzej; et al., 99d:82068**
Serfozo, Richard F. *see* **Chen, Liang[8], 99d:68031**
Shashkov, Mikhail *see* **Hyman, James M., 99c:39018**
Shivamoggi, Bhimsen K. ★ Nonlinear dynamics and chaotic phenomena. (English summary) **99c:58051**
Simonett, Gieri *see* **Escher, Joachim; et al., 99f:58042**
Ştefănescu, Ştefan On two probabilistic algorithms for π estimation. (English summary)
Stortelder, W. J. H. ★ Parameter estimation in nonlinear dynamic systems. (English summary) **99j:93002**
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Toscani, Giuseppe *see* **Gabetta, E.; et al., 99c:76096**
Ueki, Taro (*with* Larsen, Edward W.) A kinetic theory for nonanalog Monte Carlo particle transport algorithms: exponential transform with angular biasing in planar-geometry anisotropically scattering media. (English summary) **99d:82069**
Weekes, Suzanne L. The travelling wave scheme for the Navier-Stokes equations. (English summary) **99e:65119**
White, Peter William *see* **Powell, James A.; et al., 99j:92027**

65C99 None of the above, but in this section

Madatyan, Kh. A. On an algorithm for constructing irredundant tests for binary tables. (Russian. Russian summary) **99e:65008**

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Bristeau, M. O. (*with* Erhel, Jocelyne) Augmented conjugate gradient. Application in an iterative process for the solution of scattering problems. (English summary) **99j:65041**
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Li, Xiao Ming[1] *see* **Yang, Guang Wen; et al.**
Mrozek, Marian (*with* Żelawski, Marcin) Heteroclinic connections in the Kuramoto-Sivashinsky equation: a computer assisted proof. (English summary) **99c:34090**
Shkarupa, E. V. (*with* Voĭtishek, A. V.) Optimization of discretely stochastic procedures for globally estimating the solution of an integral equation of the second kind. (English summary) **99f:65208**
Tikhomirov, A. S. On optimal Markov monotone symmetric random search. (Russian. Russian summary) **99h:90075**
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Wang, Yi He *see* **Yang, Guang Wen; et al.**
Yang, Guang Wen (*with* Li, Xiao Ming[1]; Wang, Yi He; Zheng, Wei Min; Wang, Ding Xing) Deterministic annealing. (Chinese. English and Chinese summaries)
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65Dxx Numerical approximation {Primarily algorithms; for theory, see 41–XX.}

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(Chuyan, Olga) *see* **Sukharev, Aleksei G., 99i:65002**
(Meek, D. S.) *see* **Computational methods in computer graphics, 99h:65003**
Sukharev, Aleksei G. ★ Minimax models in the theory of numerical methods. **99i:65002**
(Walton, D. J.) *see* **Computational methods in computer graphics, 99h:65003**

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Computational methods in computer graphics ★ Special issue: computational methods in computer graphics. **99h:65003**
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Computational methods in computer graphics ★ Special issue: computational methods in computer graphics. **99h:65003**

65D05 Interpolation

Akyildiz, Y. *see* **Markov, Svetoslav M., 99e:65010**
Al-Musallam, Fadhel *see* **Heinig, Georg, 99c:65015**
Benbourhim, M. N. (*with* González-Casanova, Pedro) Generalized variational quasi interpolants in $(H_0^m(\Omega))^n$. (English summary) **99m:65016**
Borgatti, Michele *see* **Rovatti, Riccardo; et al., 99f:65014**
Caruso, C. (*with* Quarta, F.) Interpolation methods comparison. (English summary) **99c:65014**
Chen, Fa Lai *see* **Sun, Jian Zhong; et al.**
Chen, Zhongying (*with* Micchelli, Charles A.; Xu, Yuesheng) A construction of interpolating wavelets on invariant sets. (English summary) **99m:65017**
D'Apuzzo, Marco (*with* Maddalena, Lucia) Parallelization strategies for the B-spline curve interpolation problem. (English summary) (*see* **99g:65004**)
Dubey, Y. P. *see* **Rana, S. S., 99b:65010**
Dubuc, Serge (*with* Merrien, Jean-Louis; Sablonnière, Paul) The length of the de Rham curve. (English summary) **99f:65013**
Floater, Michael S. (*with* Iske, Armin) Thinning, inserting, and swapping scattered data. (English summary) **99h:65015**
— (*with* Micchelli, Charles A.) Nonlinear stationary subdivision. (English summary) (*see* **99a:00051**)
Gemignani, Luca Fast and stable computation of the barycentric representation of rational interpolants. (English summary) **99m:65018**
González-Casanova, Pedro *see* **Benbourhim, M. N., 99m:65016**

Greiner, Günther (*with* Hormann, Kai) Interpolating and approximating scattered 3D data with hierarchical tensor product B-splines. (English summary) (*see* **99g:65005**)
Guerrieri, Roberto *see* **Rovatti, Riccardo; et al., 99f:65014**
Han, Bin[2] (*with* Jia, Rong Qing) Optimal interpolatory subdivision schemes in multidimensional spaces. (English summary) **99m:65019**
Heinig, Georg (*with* Al-Musallam, Fadhel) Lagrange's formula for tangential interpolation with application to structured matrices. (English summary) **99c:65015**
Hesthaven, J. S. From electrostatics to almost optimal nodal sets for polynomial interpolation in a simplex. (English summary) **99b:65009**
Hormann, Kai *see* **Greiner, Günther, (99g:65005)**
Ignatenko, M. V. Application of the Fourier transform and the sine (cosine)-transform for the construction of operator interpolation formulas. (Russian. English and Russian summaries) **99m:65020**
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Jetter, Kurt (*with* Stöckler, Joachim) Topics in scattered data interpolation and non-uniform sampling. (English summary) **99h:65016**
Jia, Rong Qing *see* **Han, Bin[2], 99m:65019**
Lasser, D. (*with* Stüttgen, T.) Interior improvement of piecewise linear interpolants defined over Delaunay triangulations. (English summary) **99c:65016**
Léger, Michel Interpolation with triangulated surfaces and curvature minimization. (English summary) (*see* **99g:65004**)
Li, Shaofan (*with* Liu, Wing Kam) Synchronized reproducing kernel interpolant via multiple wavelet expansion. (English summary) **99e:65009**
Light, W. A. (*with* Wayne, Henry) Spaces of distributions, interpolation by translates of a basis function and error estimates. (English summary) **99m:65021**
Liu, Wing Kam *see* **Li, Shaofan, 99e:65009**
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Maddalena, Lucia *see* **D'Apuzzo, Marco, (99g:65004)**
Markov, Svetoslav M. (*with* Akyildiz, Y.) Curve fitting and interpolation of biological data under uncertainties. (English summary) **99e:65010**
Merrien, Jean-Louis *see* **Dubuc, Serge; et al., 99f:65013**
Micchelli, Charles A. *see* **Chen, Zhongying; et al., 99m:65017** *and* **Floater, Michael S., (99a:00051)**
Miura, Kenjiro T. Interpolation of 3D points by unit quaternion integral curves. (Japanese. English and Japanese summaries) **99d:65029**
Pöplau, Gisela (*with* Sprengel, Frauke) Some error estimates for periodic interpolation on full and sparse grids. (English summary) (*see* **99g:65004**)
Powell, M. J. D. A review of methods for multivariable interpolation at scattered data points. (English summary) **99g:65014**
Qu, Yong Ming *see* **Sun, Jian Zhong; et al.**
Quarta, F. *see* **Caruso, C., 99c:65014**
Rana, S. S. (*with* Dubey, Y. P.) Best error bounds of deficient quintic spline interpolation. (English summary) **99b:65010**
Reif, Ulrich On the local existence of the quadratic geometric Hermite interpolant. (English summary) **99k:65015**
Riemenschneider, Sherman D. (*with* Shen, Zuowei) Multidimensional interpolatory subdivision schemes. (English summary) **99j:65011**
Rovatti, Riccardo (*with* Borgatti, Michele; Guerrieri, Roberto) A geometric approach to maximum-speed n-dimensional continuous linear interpolation in rectangular grids. (English summary) **99f:65014**
Sablonnière, Paul *see* **Dubuc, Serge; et al., 99f:65013** *and* **Tijini, Ahmed, 99m:65023**
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Sprengel, Frauke A unified approach to error estimates for interpolation on full and sparse Gauss-Chebyshev grids. (English summary) **99c:65017**
— *see also* **Pöplau, Gisela, (99g:65004)**
Stănică, Daniel On the φ-map method for exponential interpolation. (English summary) **99f:65015**
Stöckler, Joachim *see* **Jetter, Kurt, 99h:65016**
Stüttgen, T. *see* **Lasser, D., 99c:65016**
Sun, Jian Zhong (*with* Chen, Fa Lai; Qu, Yong Ming) Approximate common divisors of polynomials and degree reduction for rational curves. (English summary)
Tan, Jie-qing Algorithms for lacunary vector valued rational interpolants. (English summary) **99m:65022**
Tijini, Ahmed (*with* Sablonnière, Paul) Approximation de contours convexes par des splines paramétrées périodiques convexes C^1, quadratiques ou cubiques. (English and French summaries) [Approximation of convex contours by quadratic or cubic convex periodic parameterized C^1-splines] **99m:65023**
Waldron, Shayne The error in linear interpolation at the vertices of a simplex. (English summary) **99d:65030**
Walker, Marshall Adding constraints to Gordonesque surfaces. (English summary) **99f:65016**
Wang, Ren-Hong (*with* Lu, You) Quasi-interpolating operators and their applications in hypersingular integrals. (English summary) **99h:65017**
Wayne, Henry *see* **Light, W. A., 99m:65021**
Wendland, Holger Sobolev-type error estimates for interpolation by radial basis functions. (English summary) **99j:65012**
— Error estimates for interpolation by compactly supported radial basis functions of minimal degree. (English summary) **99g:65015**
Xu, Yuesheng *see* **Chen, Zhongying; et al., 99m:65017**
Zhu, Ping[2] The elliptic type node configuration and interpolation in $\mathbf{R}^2$. (English summary) **99e:65011**

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Agarwal, Ravi P. *see* **Wong, Patricia J. Y., 99c:65022**
Allen, Jeffery C. *see* **Schwartz, David F., 99a:78029**
Baltensperger, Richard (*with* Berrut, Jean-Paul; Noël, Benjamin) Exponential convergence of a linear rational interpolant between transformed Chebyshev points. (English summary) **99k:41016**
Baumgarten, Christoph (*with* Farin, Gerald E.) Smooth rational cubic spline interpolation. (English summary) **99e:65012**
Bernardi, Christine (*with* Girault, Vivette) A local regularization operator for triangular and quadrilateral finite elements. (English summary) **99g:65107**
Berrut, Jean-Paul *see* **Baltensperger, Richard; et al., 99k:41016**
Brown, Jeffrey Lawrence (*with* Etheridge, W. L.) Local approximation of functions over points scattered in $\mathbf{R}^m$. (English summary) **99j:65018**
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— (*with* Vaskevich, V. L.) ★ The theory of cubature formulas. (English summary) **99g:65029b**
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Yang, Chang Lan The constructing of a double numerical integration formula of the boundary type. (Chinese. English and Chinese summaries)
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Boyanov, Borislav D. (*with* Petrova, Guergana) Numerical integration over a disc. A new Gaussian quadrature formula. (English summary) **99j:41048**
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Dryanov, Dimiter P. (*with* Kounchev, Ognyan I.) Polyharmonically exact formula of Euler-Maclaurin, multivariate Bernoulli functions, and Poisson type formula. (English and French summaries) **99j:65003**
Du, Jinyuan Quasi-Gaussian quadrature formulas. (English and Chinese summaries)
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— (*with* Meurant, Gérard) Matrices, moments and quadrature. II. How to compute the norm of the error in iterative methods. (English summary) **99d:65090**
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65E05 Numerical methods in complex analysis (potential theory, etc.) {For numerical methods in conformal mapping, see 30C30.}

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Amano, Kaname A charge simulation method for numerical conformal mapping onto circular and radial slit domains. (English summary) 99b:30007
Cardinal, Jean-Paul On two iterative methods for approximating the roots of a polynomial. (English summary) 99a:65066
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Dongarra, Jack J. (*with* Walker, David W.) Constructing linear algebra software libraries for high-performance computers. (*see* 99g:65001)
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Hernández, Vicente G. *see* **Aliaga, José Ignacio; et al., (99d:00018)**
Higham, Nicholas J. Recent developments in dense numerical linear algebra. (English summary) (*see* 99a:65008)

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Ammar, Gregory S. Classical foundations of algorithms for solving positive definite Toeplitz equations. (English summary) **99h:65047**
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Barlow, Jesse L. (*with* Zha, Hongyuan) Growth in Gaussian elimination, orthogonal matrices, and the 2-norm. (English summary) **99i:65027**
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Cheng, Sheung Hun (*with* Higham, Nicholas J.) A modified Cholesky algorithm based on a symmetric indefinite factorization. (English summary) **99e:65046**
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Cvetković, Ljiljana (*with* Nedić, Jelena) Prefactorization methods for some subclasses of H-matrices. (English summary) **99k:65028**
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Evans, David John[1] The use of preconditioning in direct methods of solving positive definite linear systems. (English summary) **99e:65047**
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Fletcher, Roger Dense factors of sparse matrices. (English summary) **99e:65048**
Foster, Leslie V. Corrigendum: "The growth factor and efficiency of Gaussian elimination with rook pivoting" [J. Comput. Appl. Math. **86** (1997), no. 1, 177–194; MR 98k:65013]. **99d:65091**
Franzé, Giuseppe *see* **Eisinberg, Alfredo; et al., 99m:65054**
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65F35 Matrix norms, conditioning, scaling [see also 15A12, 15A60]

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Dubrulle, Augustin A. An optimum iteration for the matrix polar decomposition. (English summary) **99j:65071**
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65F40 Determinants

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65F50 Sparse matrices

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Gines, D. (*with* Beylkin, Gregory; Dunn, John) *LU* factorization of non-standard forms and direct multiresolution solvers. (English summary) **99c:65087**
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Kolda, Tamara G. Partitioning sparse rectangular matrices for parallel processing. (English summary) (*see* **99h:65007**)
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Raghavan, Padma Efficient parallel sparse triangular solution using selective inversion. (English summary) **99c:65090**
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— *see also* **Alléon, Guillaume; et al., (99a:65006)**
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Çatalyürek, Ümit V. (*with* Aykanat, Cevdet) Decomposing irregularly sparse matrices for parallel matrix-vector multiplication. (English summary) (*see* **99g:65007**)
Chan, Tony F. C. (*with* Chow, Edmond Ten-Fu; Saad, Youcef; Yeung, M. C.) Preserving symmetry in preconditioned Krylov subspace methods. (English summary) **99d:65102**
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— *see also* **Chan, Tony F. C.; et al., 99d:65102**
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El-Sayed, Salah M. (*with* Ivanov, Ivan Ganchev; Petkov, Milko Georgiev) A new modification of the Rojo method for solving symmetric circulant five-diagonal systems of linear equations. (English summary) **99d:65089**
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Sparse matrices in industry ★ Sparse matrices in industry. **99a:65006**
Symposium:
New Techniques for the Treatment of Sparse Matrices for Industrial Problems ★ Sparse matrices in industry. **99a:65006**

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Angelos, James (*with* Grossman, George W.; Kaufman, Edwin; Lenker, Terry; Rakesh, Leela) Limit cycles for successive projections onto hyperplanes in $\mathbf{R}^n$. (English summary) **99k:65041**
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Camiz, Sergio I/O analysis: old and new analysis techniques. (English summary) **99k:65042**
Chang, Da-Wei Comments on R. E. White's results: "Multisplitting with different weighting schemes" [SIAM J. Matrix Anal. Appl. **10** (1989), no. 4, 481–493; MR 90k:65116]. (English summary) **99m:65097**
Fu, Jyun-Horng (*with* Miller, David F.) Computational matrix representation modules for linear operators with explicit constructions for a class of Lie operators. (English summary) **99h:65092**
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Beylkin, Gregory On multiresolution methods in numerical analysis. (English summary) **99j:65225**
Bhatia, Rajendra (*with* Kittaneh, Fuad; Li, Ren-Cang) Some inequalities for commutators and an application to spectral variation. II. (English summary) **99f:47014**
Boccacci, Patrizia *see* **Bertero, Mario; et al.**
Calvetti, D. *see* **Baglama, J.; et al., 99j:65036**
Cooperman, Gene Practical task-oriented parallelism for Gaussian elimination in distributed memory. (English summary) (*see* **99a:00039**)
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Ferng, W. R. (*with* Lin, Wen-Wei; Wang, Chern-Shuh) Numerical algorithms for undamped gyroscopic systems. (English summary) **99j:70002**
Fraley, Chris Algorithms for model-based Gaussian hierarchical clustering. (English summary)
Gower, J. C. (*with* Zeilman, B.) Orthogonality and its approximation in the analysis of asymmetry. (English summary) **99d:15005**
Hagger, M. J. Automatic domain decomposition on unstructured grids (DOUG). (English summary) **99m:65236**
Heindl, Gerhard (*with* Kreinovich, Vladik; Lakeev, A. V.) Solving linear interval systems is NP-hard even if we exclude overflow and underflow. **99j:65082**
Jiang, Zeng Rong (*with* Yu, Pin Neng) A fast Fourier transform algorithm for the inversion of block K-circulant Toeplitz matrices. (Chinese. English summary) **99h:65228**
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65Gxx Error analysis

65G05 Roundoff error

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Langlois, Philippe (*with* Nativel, Fabrice) Réduction et majoration de l'erreur d'arrondi en arithmétique à virgule flottante. (English and French summaries) [Reduction and bounding of the rounding error in floating point arithmetic] **99h:65094**
Mantilla, Ignacio False computational results. (Spanish. English and Spanish summaries)
Mrozek, Marian Rigorous error analysis of numerical algorithms via symbolic computations. (English summary) **99d:65145**
Nativel, Fabrice *see* **Langlois, Philippe, 99h:65094**
Pan, Victor Y. Single precision computation of the sign of algebraic predicates. (English summary) **99e:65083**
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Yalamov, Plamen Y. (*with* Pavlov, Velisar) On the stability of a partitioning algorithm for tridiagonal systems. (English summary) **99h:65095**
Ziv, Abraham Sharp ULP rounding error bound for the hypotenuse function. (English summary) **99i:65052**

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Abdel-Aziz, Mohammedi R. (*with* El-Sayed, Salah M.) Sensitivity analysis of the largest dependent eigenvalue functions of eigensystems. (English summary) **99m:65065**
Barrio, Roberto (*with* Berges, Jean-Claude) Perturbation simulations of rounding errors in the evaluation of Chebyshev series. (English summary) **99h:65014**
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Bertsimas, Dimitris (*with* Teo, Chung-Piaw; Vohra, Rakesh V.) On dependent randomized rounding algorithms. (English summary) **99b:90097**
Chandrasekaran, S. (*with* Gu, Ming; Sayed, Ali H.) A stable and efficient algorithm for the indefinite linear least-squares problem. (English summary) **99f:65064**
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Dobner, Hans-Jürgen Numerical bounds for the solution of linear systems with symmetric positive definite matrices. (English and Spanish summaries) **99f:65048**
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Foster, Leslie V. Corrigendum: "The growth factor and efficiency of Gaussian elimination with rook pivoting" [J. Comput. Appl. Math. **86** (1997), no. 1, 177–194; MR 98k:65013].
Gavete, L. (*with* Manzano del Moral, Carlos; Herranz Calzada, J.; Falcón, Santiago) An error indicator for a finite point method using the Galerkin formulation. (Spanish) (*see* **99d:00018**)
Gu, Ming New fast algorithms for structured linear least squares problems. (English summary) **99f:65043**
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Iri, Masao (*with* Kubota, Koichi) A general numerical approach to sensitivity analysis and error analysis with adjoint systems. (English summary) **99a:90202**
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Yalamov, Plamen Y. (*with* Paprzycki, Marcin) A new stable solver and block elimination for bordered systems. (English summary) (*see* **99m:65006**)
Yang, Chao[2] Convergence analysis of an inexact truncated RQ-iteration. (English summary) **99m:65075**
Yoshida, Toshio[1] Error analysis of numerical calculation methods for modified Bessel functions $I_\nu(x)$ using recurrence formulas. (Japanese) (*see* **99i:00028**)
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65G10 Interval and finite arithmetic

Acióly, Benedito Melo (*with* Bedregal, Benjamín R. Callejas) A quasi-metric topology compatible with inclusion monotonicity on interval space. (English summary) **99a:65060**
Alefeld, G. E. (*with* Potra, Florian A.; Völker, W.) Modifications of the interval-Newton-method with improved asymptotic efficiency. (English summary) **99m:65100**
— (*with* Claudio, D.) The basic properties of interval arithmetic, its software realizations and some applications. (English summary) **99c:65091**
Angelov, Rumen Angelov (*with* Markov, Svetoslav M.) Wrapping effect and wrapping function. (English summary) **99g:65060**
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Benhamou, Frédéric (*with* Granvilliers, Laurent) Automatic generation of numerical redundancies for non-linear constraint solving. (English summary) **99b:65062**
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Hofschuster, Werner (*with* Krämer, Walter Stephan) A computer oriented approach to get sharp reliable error bounds. (English summary) **99a:65062**
Hungerbühler, Ralf (*with* Garloff, Jürgen) Bounds for the range of a bivariate polynomial over a triangle. (English summary) **99b:65064**
Jansson, Christian (*with* Rohn, Jiří) An algorithm for checking regularity of interval matrices. (English summary) **99m:65101**
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Kolev, Lubomir V. A new method for global solution of systems of non-linear equations. (English summary) **99d:65146**
Koshelev, Misha (*with* Longpré, Luc; Taillibert, Patrick) Optimal enclosure of quadratic interval functions. (English summary) **99j:65083**
Kosheleva, Olga M. (*with* Vroegindeweij, Piet G.) When is the product of intervals also an interval? (English summary) **99d:65147**
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Kühn, Wolfgang Rigorously computed orbits of dynamical systems without the wrapping effect. (English summary) **99h:65096**
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Leclerc, Anthony (*with* Ely, Jeffrey S.) Reliable collision detection for time-dependent parametric surfaces. (English summary) **99g:65061**
Lerch, Michael (*with* Wolff von Gudenberg, Jürgen) Expression templates for dot product expressions. (*see* **99m:65007**)
Li, Chun Guang (*with* You, Zhao Yong) An interval verification algorithm for the solutions of nonlinear systems. (Chinese. English summary)
Lin, Qun[1] (*with* Rokne, Jon G.) Inclusion isotonicity for circular centered forms in several complex variables. (English summary) **99d:65148**
Ling, Yong Xiang On the Moore test for coupled equations. (English and German summaries) **99a:65063**
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Markov, Svetoslav M. Isomorphic embeddings of abstract interval systems. (English summary) **99d:65149**
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— (*with* Rohn, Jiří) On the applicability of the interval Gaussian algorithm. (English summary) **99f:65071**
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Monfroy, Eric Chaotic iteration for polynomial constraints. (English summary) **99m:65102**
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Lösche, Ralf (*with* Schwetlick, Hubert; Timmermann, Gisela) A modified block Newton iteration for approximating an invariant subspace of a symmetric matrix. (English summary) **99e:65085**
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Wang, He Yuan (*with* Ding, Su Zhen) Numerical analysis of corank N bifurcation problems. (Chinese. English and Chinese summaries) **99j:65104**
Werner, Bodo *see* **Xu, Haihong; et al., 99k:58131**
Wu, Bai Sheng (*with* Küpper, Tassilo) Computation of Hopf branches bifurcating from a Hopf/pitchfork point for problems with Z_2-symmetry. (English summary) **99j:58045**
Xu, Haihong (*with* Janovský, Vladimír; Werner, Bodo) Numerical computation of degenerate Hopf bifurcation points. (English summary) **99k:58131**

65H20 Global methods, including homotopy approaches [see also 58C30, 90C30]

Beck, J. L. *see* **Yang, Chi-Ming, 99a:65074**

Geoghegan, Ross (*with* Lagarias, Jeffrey C.; Melville, Robert C.) Threading homotopies and dc operating points of nonlinear circuits. (English summary) **99j:65098**

Lagarias, Jeffrey C. *see* **Geoghegan, Ross; et al., 99j:65098**

Lee, Cheng-Ming A global analysis of zero-finding by Newton's method and Smale's method. (English summary) **99h:65111**

Liu, Xin Guo Note on the QR factorization with exponential windowing. (Chinese. English summary)

Melville, Robert C. *see* **Geoghegan, Ross; et al., 99j:65098**

Wang, De Ren (*with* Zhao, Fengguang) The globalization of Durand-Kerner algorithm. (Chinese. English and Chinese summaries) **99d:65167**

Yang, Chi-Ming (*with* Beck, J. L.) Generalized trajectory methods for finding multiple extrema and roots of functions. (English summary) **99a:65074**

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Bai, Zhong Zhi Asynchronous multisplitting AOR methods for a class of systems of weakly nonlinear equations. (English summary) **99h:65050**

Cai, Xiao-Chuan (*with* Gropp, William D.; Keyes, David E.; Melvin, Robin G.; Young, David P.) Parallel Newton-Krylov-Schwarz algorithms for the transonic full potential equation. (English summary) **99b:65138**

Coetzee, Frans M. (*with* Stonick, Virginia L.) On producing multiple solutions using repeated trials. (English summary) **99e:65092**

Gropp, William D. *see* **Cai, Xiao-Chuan; et al., 99b:65138**

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Kowalczyk, Maciej Nonlinear analysis based on homogeneous incremental systems. (English summary) **99a:73076**

Liu, Xin Guo A simple iteration for solving the matrix equation $X + A^H X^{-1} A = I$. (Chinese. English summary) **99h:65082**

Lösche, Ralf (*with* Schwetlick, Hubert; Timmermann, Gisela) A modified block Newton iteration for approximating an invariant subspace of a symmetric matrix. (English summary) **99e:65085**

Melvin, Robin G. *see* **Cai, Xiao-Chuan; et al., 99b:65138**

Schwetlick, Hubert *see* **Lösche, Ralf; et al., 99e:65085**

Sellami, Hichem A homotopy continuation method for solving normal equations. (English summary) **99f:90152**

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Young, David P. *see* **Cai, Xiao-Chuan; et al., 99b:65138**

Zavrazhina, T. V. Numerical modeling of transitions to chaos of dissipative oscillators with one degree of freedom. (Russian. Russian summary) **99d:65224**

65H99 None of the above, but in this section

Popkov, Yu. S. On the convergence of direct multiplicative methods in problems of conditional maximization of entropy. (Russian. Russian summary) **99j:65099**

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Benseny, Antoni (*with* Olivé, Carme) Algebraic manipulation of the invariance condition in the computation of local invariant curves of hyperbolic fixed points. (English summary) **99f:58153**

Broer, Hendrik W. (*with* Osinga, H. M.; Vegter, Gert) Algorithms for computing normally hyperbolic invariant manifolds. (English summary) **99a:58119**

Chu, Moody T. (*with* Guo, Quanlin) A numerical method for the inverse stochastic spectrum problem. (English summary) **99d:65126**

Guo, Quanlin *see* **Chu, Moody T., 99d:65126**

Knudsen, Carsten (*with* Stauning, Ole) Exact numerical methods in dynamical systems theory. (English summary) **99f:58141**

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Wąsowski, Janusz On solution of fuzzy equations. (English summary) **99d:04011**

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65J05 General theory

Castañeda, Nelson A note on a fixed point theorem and Newton method. (English summary) **99m:65115**

Crombez, G. Finding projections onto the intersection of convex sets in Hilbert spaces. II. (English summary) **99d:65168**

Kochikov, Igor V. (*with* Kuramshina, Gulnara M.; Yagola, A. G.) Inverse problems of vibrational spectroscopy as nonlinear ill-posed problems. (English summary) **99i:65059**

Kuramshina, Gulnara M. *see* **Kochikov, Igor V.; et al., 99i:65059**

Matkowski, Janusz (*with* Singh, Shyam Lal) Round-off stability of functional iterations on product spaces. (English summary) **99f:65081**

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Micchelli, Charles A. (*with* Sauer, Thomas) Sobolev norm convergence of stationary subdivision schemes. (English summary) **99h:65230**

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Takači, Arpad *see* **Takači, Djurdjica, 99f:39010**

Takači, Djurdjica (*with* Takači, Arpad) Construction of the solutions of difference equations in the field of Mikusiński operators. (English summary) **99f:39010**

Yang, Zhong Hua[1] *see* **Ye, Rui-song, 99f:58037**

Yanovich, L. A. (*with* Manyuk, E. M.) Linear operator interpolation in a space of functional matrices. (English summary) (*see* **99k:65003**)

Ye, Rui-song (*with* Yang, Zhong Hua[1]) Classification of simple higher-order symmetry-breaking bifurcations and their computation. (English summary) **99f:58037**

Zeng, Liu Chuan On a general projection algorithm for variational inequalities. (English summary) **99e:47096**

65J10 Equations with linear operators (do not use 65Fxx)

Abramov, A. A. On the convergence of an elimination method. (Russian. Russian summary) **99d:65170**

— (*with* Yukhno, L. F.) An elimination method for linear problems. (Russian. Russian summary) **99j:65100**

Alam, Rafikul On spectral approximation of linear operators. (English summary) **99j:65101**

Amodei, Luca Reproducing kernels of vector-valued function spaces. (English summary) **99h:65112**

Argyros, Ioannis K. A unifying semilocal convergence theorem for Newton-like methods in Banach space. (English summary)

Axelsson, Owe (*with* Kaporin, I. E.) Minimum residual adaptive multilevel finite element procedure for the solution of nonlinear stationary problems. (English summary) **99d:65171**

Bjørhus, Morten Operator splitting for abstract Cauchy problems. (English summary) **99h:65113**

Bondarenko, L. N. (*with* Zhuk, P. F.) Sharp estimates for the rate of convergence of s-step iterative methods of variational type in a Hilbert space. (Russian. Russian summary) **99g:65064**

Bulychev, Yu. G. Construction of parametrized solutions of linear operator equations, based on a modified Galerkin method. (Russian) **99j:65102**

Cătinaş, Emil (*with* Păvăloiu, Ion) On the Chebyshev method for approximating the eigenvalues of linear operators. **99d:65172**

Chavent, Guy (*with* Kunisch, Karl) Regularization of linear least squares problems by total bounded variation. (English summary) **99b:65071**

Chen, Yan Xin (*with* Qi, Fei Hu) Research on synergetic learning algorithms. (Chinese. English and Chinese summaries)

Corcuera, Ma. Isabel *see* **Corrales Sendino, José M.; et al., (99g:00036)**

Corrales Sendino, José M. (*with* Cuadrado, Ma. Luisa; Corcuera, Ma. Isabel; Navarro-Bermúdez, Francisco J.) On multilevel projection methods. (Spanish) (*see* **99g:00036**)

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Ding, Jiu A maximum entropy method for solving Frobenius-Perron operator equations. (English summary) **99g:65065**

González, Cesáreo Jesús (*with* Palencia de Lara, C.) Stability of time-stepping methods for abstract time-dependent parabolic problems. (English summary) **99b:65072**

— (*with* Palencia de Lara, C.) Stability of Runge-Kutta methods for abstract time-dependent parabolic problems: the Hölder case. (English summary) **99c:65108**

Guermond, Jean-Luc Stabilisation par viscosité de sous-maille pour l'approximation de Galerkin des opérateurs linéaires monotones. (English and French summaries) [Subgrid viscosity stabilization of Galerkin approximations of monotone linear operators] **99k:65049**

Gutiérrez, José Manuel (*with* Hernández Verón, Miguel A.) The Newton method under strong Kantorovich conditions. Application to differential and integral equations. (Spanish. Spanish summary) **99h:65114**

Hernández Verón, Miguel A. *see* **Gutiérrez, José Manuel, 99h:65114**

Hou, Zong Yi *see* **Yang, Hong Qi**

Ichim, Ion Sur le problème des moindres carrés. (English and French summaries) [On the least square problems] **99h:65115**

Kaporin, I. E. *see* **Axelsson, Owe, 99d:65171**

Karátson, J. The conjugate gradient method for a class of non-differentiable operators. **99e:65094**

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Mahavier, W. T. A convergence result for discrete steepest descent in weighted Sobolev spaces. (English summary) **99m:65116**

Mardanov, I. Dzh. On improving the convergence of the method of successive approximations in the solution of a linear operator equation. (Russian. English and Azerbaijani summaries) **99h:65116**

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Sabharwal, Ashutosh (*with* Potter, Lee C.) Convexly constrained linear inverse problems: iterative least-squares and regularization. (English summary) **99h:65117**

Solodkiĭ, S. G. A modification of a projection scheme for solving ill-posed problems. (Russian) **99m:65117**

Song, Guang Xing An iterative solution method for bivariate nonlinear operator equations in Banach spaces. (Chinese. English and Chinese summaries)

Vasin, V. V. Approximation-iterative algorithms for solving ill-posed problems with a priori information. (Russian) **99d:65173**

Yang, Hong Qi (*with* Hou, Zong Yi) Convergence rates of regularized solutions and parameter choice strategy for semi-positive definite operator equations. (Chinese. English summary)

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Zheng, Cheng Yao A generalized iterative scheme for nonlinear equations and a condition for its monotone convergence. (Chinese. English and Chinese summaries)
Zhuk, P. F. *see* **Bondarenko, L. N., 99g:65064**

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Amer, Mustafa A. Constructive solutions for nonlinear multiparameter eigenvalue problems. (English summary) **99c:47097**
Anderssen, Robert S. *see* **Hegland, Markus, 99d:65190**
Argyros, Ioannis K. An error analysis for the Steffensen method under generalized Zabrejko-Ngyen-type assumptions. **99c:47105**
Bakaev, Nikolai Yu. On variable stepsize Runge-Kutta approximations of a Cauchy problem for the evolution equation. (English summary) **99i:65069**
Chatzipantelidis, Panagiotis Explicit multistep methods for nonstiff partial differential equations. (English summary) **99d:65278**
Chen, Guo Liang[1] (*with* Xue, Yifeng) The expression of the generalized inverse of the perturbed operator under Type I perturbation in Hilbert spaces. (English summary) **99k:47002**
Chou, So-Hsiang (*with* Porsching, T. A.) A note on the restarted CG method and reduced space additive correction. (English summary) **99e:65051**
Fu, Jyun-Horng (*with* Miller, David F.) Computational matrix representation modules for linear operators with explicit constructions for a class of Lie operators. (English summary) **99h:65092**
Gavrilyuk, Ivan P. (*with* Makarov, Vladimir L.) Exact and approximate solutions of some operator equations based on the Cayley transform. (English summary) **99g:65068**
George, Santhosh (*with* Nair, M. Thamban) Error bounds and parameter choice strategies for simplified regularization in Hilbert scales. (English summary) **99b:65075**
Gorenflo, Rudolf (*with* Medvedeva, T.; Rubin, Boris) Locally controllable regularization of Abel integral equations via operator complementation. (English summary) **99b:45002**
Greensite, Fred Second-order approximation of the pseudoinverse for operator deconvolutions and families of ill-posed problems. (English summary) **99h:65222**
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Iusem, Alfredo N. On some properties of generalized proximal point methods for variational inequalities. (English summary) **99d:90130**
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Klawonn, Axel Block-triangular preconditioners for saddle point problems with a penalty term. (English summary) **99f:65051**
Koshelev, I. E. Numerical solution of the linear Fredholm equation of the first kind by the multigrid method. (Russian) **99m:65124**
Kyncl, Jan Dominant eigenvalue problem for positive integral operators and its solution by Monte Carlo method. (English summary) **99b:65004**
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Li, He Nong The Ritz regularization method for operator equations of the first kind. (Chinese. English and Chinese summaries) **99j:65108**
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Neubauer, Andreas (*with* Scherzer, Otmar) Regularization for curve representations: uniform convergence for discontinuous solutions of ill-posed problems. (English summary) **99d:65376**
Ng, Michael K. Circulant preconditioners for convolution-like integral equations with higher-order quadrature rules. (English summary) **99g:65126**
Novak, Erich (*with* Sloan, Ian H.; Woźniakowski, Henryk) Tractability of tensor product linear operators. (English summary) **99c:65257**
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— *see also* **Neubauer, Andreas, 99d:65376**
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Shadrin, V. Yu. Iterative solution of equations of the projection method. (Russian) (*see* **99m:00021**)
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Sobolevskii, Pavel E. Well-posedness of difference elliptic equation. (English summary) **99g:39022**
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Yang, Yi Du (*with* Shih, Tsi Min; Liem, Chin Bo; Lü, Tao) An abstract error estimate for eigenvalue finite element approximation. (Chinese. English summary)

65J15 Equations with nonlinear operators (do not use 65Hxx)

Alexandre, P. (*with* Nguyen, Van Hien; Tossings, P.) The perturbed generalized proximal point algorithm. (English and French summaries) **99e:65095**
Angermann, Lutz A posteriori error estimates for approximate solutions of nonlinear equations with weakly stable operators. (English summary) **99c:65109**
Argyros, Ioannis K. On the method of tangent hyperbolas. (English summary) **99d:65174**
— ★ A unified approach for solving nonlinear operator equations and applications. (English summary) **99i:65060**
— The asymptotic mesh independence principle for inexact Newton-Galerkin-like methods. (English summary) **99d:65175**
— General ways of constructing accelerating Newton-like iterations on partially ordered topological spaces. (English summary) **99d:65176**
— A new convergence theorem for Steffensen's method on Banach spaces and applications. (English summary) **99d:65177**
— A local convergence theorem for the inexact Newton method at singular points. (English summary) **99d:65178**
— Sufficient conditions for constructing methods faster than Newton's. (English summary) **99c:65110**
— Error bounds for the Chebyshev method in Banach spaces. (English summary) **99h:65118**
— A new convergence theorem for the Jarratt method in Banach space. (English summary) **99g:65066**
— On a new Newton-Mysovskii-type theorem with applications to inexact Newton-like methods and their discretizations. (English summary) **99a:65075**
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— Generalized conditions for the convergence of inexact Newton-like methods on Banach spaces with a convergence structure and applications. (English summary) **99f:65082**
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— Comparing the radii of some balls appearing in connection to three local convergence theorems for Newton's method. (English summary) **99d:65180**
— Results on Newton methods. II. Perturbed Newton-like methods in generalized Banach spaces. (English summary)
— Results on Newton methods. I. A unified approach for constructing perturbed Newton-like methods in Banach space and their applications. (English summary)
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— On the convergence of two-step methods generated by point-to-point operators. (English summary)
— On the applicability of two Newton methods for solving equations in Banach space. (English summary)
— Affine invariant local convergence theorems for inexact Newton-like methods. (English summary)
Badriev, I. B. (*with* Zadvornov, O. A.) On the strong convergence of an iterative method for operators with degeneration. (Russian. Russian summary) **99b:65073**
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Barashkov, A. S. (*with* Dmitriev, Vladimir Ivanovich) On conditions for estimating the precision of solutions of inverse problems. (English summary)
Bartish, M. Ya. (*with* Shakhno, S. M.) Investigation of parametric iterative processes for solving nonlinear equations. (Russian. English, Russian and Ukrainian summaries) **99e:65096**
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— (*with* Gutiérrez, José Manuel; Hernández Verón, Miguel A.) A construction procedure of iterative methods with cubical convergence. II. Another convergence approach. (English summary) **99g:65067**
— (*with* Hernández Verón, Miguel A.; Salanova, M. A.) Remark on the convergence of the midpoint method under mild differentiability conditions. (English summary) **99f:65085**
— (*with* Hernández Verón, Miguel A.) Avoiding the computation of the second Fréchet-derivative in the convex acceleration of Newton's method. (English summary) **99h:65120**
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— (*with* Wang, Xing Hua) Convergence on a deformed Newton method. (English summary) **99d:65184**
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— *see also* **Ezquerro, J. A.; et al., 99a:65076**; **99f:65085**; **Gutiérrez, José Manuel, 99f:65087**; **Ezquerro, J. A.; et al., 99g:65067**; **99h:65120**; **99i:65061** *and* **Gutiérrez, José Manuel, 99m:65119**
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Izmailov, Alekseĭ Feridovich (*with* Tret'yakov, A. A.) On the application of nonsmooth optimization methods for solving nonlinear operator equations. (Russian. Russian summary) **99m:65120**
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Jin, Qi Nian (*with* Hou, Zong Yi) A strategy for choosing the parameters for Tikhonov regularization of ill-posed nonlinear problems. (Chinese. Chinese summary) **99c:65112**
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— Spectral approximation for inner and outer solution of some SPP. (English summary) **99h:65142**
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García-Archilla, Bosco (*with* Sanz Serna, J. M.; Skeel, Robert D.) Long-time-step methods for oscillatory differential equations. (English summary) **99g:65087**
Ixaru, L. Gr. (*with* De Meyer, H.; Vanden Berghe, Guido) CP methods for the Schrödinger equation revisited. (English summary) **99b:65081**
Kulikov, G. Yu. Revision of the theory of symmetric one-step methods for ordinary differential equations. (English summary) **99g:65085**
Linh, Vu Hoang Error estimations of approximate solution to certain second order linear differential equations. (English summary) **99e:34017**
Mrozek, Marian Rigorous error analysis of numerical algorithms via symbolic computations. (English summary) **99d:65145**
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Amodio, Pierluigi (*with* Mazzia, Francesca) An algorithm for the computation of consistent initial values for differential-algebraic equations. (English summary) **99k:65067**
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van Gils, S. A. (*with* Tchistiakov, V.) About convergence of numerical approximations to homoclinic twist bifurcation points in Z_2-symmetric systems in $\mathbf{R}^4$. (English summary) **99d:65238**
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Ismail, Gamal A. F. (*with* Ibrahim, Iman H.) A new higher order effective P-C methods for stiff systems. (English summary) **99i:65081**
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— (*with* Martín Ordóñez, Pablo) A numerical method for the integration of perturbed linear problems. (English summary) **99d:65240**
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Zhang, Cheng Jian (*with* Zhou, Shu Zi) The asymptotic stability of theoretical and numerical solutions for systems of neutral multidelay-differential equations. (English summary) **99k:65069**
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65M50 Mesh generation and refinement

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Ammari, Habib Scattering of waves by thin periodic layers at high frequencies using the on-surface radiation condition method. (English summary) **99i:35017**
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Barashkov, A. S. (*with* Dmitriev, Vladimir Ivanovich) On the uniqueness of solutions of inverse multidimensional spectral problems in dual asymptotic models. (English summary)
Belytschko, Ted *see* **Black, T., 99j:65103**
Benbourhim, M. N. (*with* González-Casanova, Pedro) Generalized variational quasi interpolants in $(H_0^m(\Omega))^n$. (English summary) **99m:65016**
Bermúdez de Castro, Alfredo (*with* Muñiz, M. C.) Numerical solution of an electromagnetic problem in the casting of aluminum. (Spanish) (*see* **99d:00018**)
— (*with* Seoane, M. L.) Numerical solution of a nonlocal problem arising in plasma physics. (English summary) **99a:76167**
Bjørstad, Petter E. Mathematics, parallel computing and reservoir simulation. (English summary) **99e:00011**
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Bossavit, Alain ★ Computational electromagnetism. (English summary) **99m:78001**
Cedio-Fengya, D. J. (*with* Moskow, Shari; Vogelius, Michael) Identification of conductivity imperfections of small diameter by boundary measurements. Continuous dependence and computational reconstruction. (English summary) **99d:78011**
— (*with* Romerio, Michel V.; Vogelius, Michael) Determination of the interface between the fluids in a Hall-Héroult cell from measurements of electric potentials and currents on the electrodes. (English summary) **99k:35196**
Colton, David L. (*with* Piana, Michele; Potthast, Roland) A simple method using Morozov's discrepancy principle for solving inverse scattering problems. (English summary) **99b:35209**
Costabel, Martin (*with* Dauge, Monique; Suri, Manil) Numerical approximation of a singularly perturbed contact problem. (English summary) **99h:73071**
Couchman, L. S. *see* **Ghosh Roy, D. N.; et al., 99f:76119**
Coutinho, A. L. G. A. *see* **Dias, C. M., 99f:76086**
Dahmen, Wolfgang (*with* Kunoth, Angela; Urban, Karsten) Wavelets in numerical analysis and their quantitative properties. (English summary) **99j:65246**
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Dias, C. M. (*with* Coutinho, A. L. G. A.) Reduced integration for steady advective-diffusive problems discretized by the SUPG formulation with discontinuity-capturing. (Portuguese. English and Portuguese summaries) **99f:76086**
Dimov, Ivan T. (*with* Gurov, T. V.) Estimates of the computational complexity of iterative Monte Carlo algorithm based on Green's function approach. (English summary) **99h:65009**
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Hagstrom, Thomas (*with* Hariharan, S. I.) A formulation of asymptotic and exact boundary conditions using local operators. (English summary) **99g:78018**
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Helsing, Johan (*with* Peters, Gunnar) Integral equation methods and numerical solutions of crack and inclusion problems in planar elastostatics. (English summary) **99j:73114**
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Leitão, A. Applications of the Backus-Gilbert method to linear and some nonlinear equation:. (English summary) **99i:47020**
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Poullikkas, Andreas (*with* Karageorghis, Andreas; Georgiou, Georgios C.; Ascough, John) The method of fundamental solutions for Stokes flows with a free surface. (English summary) **99f:76044**
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65P05 Partial differential equations, miscellaneous problems

65Q05 Difference and functional equations, recurrence relations

Kremer′, E. V. Multiple orthogonal difference sweep for three-point difference equations of general form. (Russian. English and Russian summaries) **99d:65361**
Li, Lei (*with* Zhang, Bao Lin[1]) A parallel algorithm for solving the implicit diffusion difference equations. (English summary)
Sanders, Jan A. (*with* Wang, Jing Ping) Combining Maple and Form to decide on integrability questions. (English summary) **99j:65233**
Wang, He Yu Computer search for the upper estimation of Hausdorff measure of classical fractal sets. I. Analysis of coding technique for Sierpinski gasket as a typical example. (Chinese. English summary)
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Clark, Dean (*with* Lewis, James T.) Symmetric solutions to a Collatz-like system of difference equations. (*see* **99i:00021**)
Ding, Jiu (*with* Zhou, Ai Hui) The projection method for a class of Frobenius-Perron operators. (English summary) **99i:47054**
Fishman, L. Z. On a property of the Störmer method. (Russian. Russian summary) **99h:65146**
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Ivan, Dumitru Mircea An operator method in difference equations. (English summary) **99j:39007**
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Kamont, Z. (*with* Zubik-Kowal, Barbara) Numerical methods for impulsive partial differential equations. (English summary) **99i:65087**
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Knudsen, Carsten (*with* Stauning, Ole) Exact numerical methods in dynamical systems theory. (English summary) **99f:58141**
Kondo, Koichi (*with* Nakamura, Yoshimasa) A Steffensen iterative method with high-order convergence. (Japanese) (*see* **99i:00028**)
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Matkowski, Janusz (*with* Singh, Shyam Lal) Round-off stability of functional iterations on product spaces. (English summary) **99f:65081**
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65Rxx Integral equations, integral transforms [see also 45Lxx]

65R10 Integral transforms

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Frolov, G. A. (*with* Kitaev, Mikhail Yu.) A problem of numerical inversion of implicitly defined Laplace transforms. (English summary) **99d:65362**
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Desbat, L. (*with* Ramm, Alexander G.) Finding small objects from tomographic data. (English summary) **99a:92012**
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Dobson, David C. Recovery of blocky images in electrical impedance tomography. **99d:94005**
Evans, G. A. Singular integrals and their application to finite element methods. **99d:65068**
Faridani, Adel Sampling in parallel-beam tomography. (English summary) **99j:94006**
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Richter, Mathias[2] Use of box splines in computer tomography. (English summary) **99k:65019**
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65R20 Integral equations

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Abdou, M. A. (*with* Mahmoud, S. A.; Darwish, M. A.) A numerical method for solving the Fredholm integral equation of the second kind. (English summary) **99h:65211**
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Capobianco, M. R. (*with* Formica, M. R.) A numerical method for a class of Volterra integral equations with logarithm perturbation kernel. (English summary) **99h:65213**
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— *see also* **Zolotarevskiĭ, V. A.**, **99j:65244**
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Chen, Hong[1] (*with* Shan, Qi Qian) A simple method for calculating numerical characteristics of some important statistics. (Chinese. English and Chinese summaries)
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Prigarin, S. M. Numerical solution of boundary value problems for linear systems of stochastic differential equations. (Russian. Russian summary) **99h:65232**
Pyt'ev, Yu. P. A possibility-theoretic method for measurement reduction. (Russian. Russian summary)
Ramasamy, A. M. S. A numerical method for forecasting.
Saisho, Yasumasa Approximation of SDEs with reflecting barriers using the penalty method. (Japanese) (*see* **99f:65007**)
Sánchez Ávila, Carmen (*with* Cobos Arribas, Pablo) Scattered deconvolution using the Wiener solution. (Spanish. Spanish summary) (*see* **99g:00036**)
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Söderström, Torsten (*with* Ježek, Jan; Kučera, Vladimír) An efficient and versatile algorithm for computing the covariance function of an ARMA process. (English summary) **99j:65253**
Ştefănescu, Ştefan On two probabilistic algorithms for π estimation. (English summary)
Sumita, Ushio (*with* Igaki, Nobuko) Necessary and sufficient conditions for global geometric convergence of block Gauss-Seidel iteration algorithm applied to Markov chains. (English summary) **99h:65233**
Telek, Miklós (*with* Pfening, András; Fodor, Gábor) An effective numerical method to compute the moments of the completion time of Markov reward models. (English summary) **99g:65132**
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Yannios, N. (*with* Kloeden, Peter E.) Time discretization solution of stochastic differential equations. (*see* **99g:00035**)
Yu, Shihong Comparing the numerical performance of the EM and OSL algorithms for Poisson data. (*see* **99g:00035**)
Zajic, Tim *see* **Glasserman, Paul; et al., (99d:65005)**
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compound formulas for the approximate computation of Wiener functional integrals. (Russian. Russian summary) **99j:65254**

Zhou, Xun Yu *see* **Chan, Raymond H.; et al.,** (**99g:00046**)

Zhukovskiĭ, E. L. (*with* Meleshko, V. I.) The orthogonal projection method and its regularized and statistical interpretation. (Russian. Russian summary) **99d:65379**

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Abell, Martha L. (*with* Braselton, James P.; Rafter, John A.) ★ Statistics with Mathematica®. (English summary) **99m:62006**

Abukhaled, M. I. (*with* Allen, Edward J.) A class of second-order Runge-Kutta methods for numerical solution of stochastic differential equations. (English summary) **99j:65119**

Allen, Edward J. (*with* Novosel, S. J.; Zhang, Zhimin) Finite element and difference approximation of some linear stochastic partial differential equations. (English summary) **99d:60067**

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Altas, Irfan *see* **Hegland, Markus; et al.**, **99d:65031**

Arató, Mátyás (*with* Baran, Sándor; Ispány, Márton) Functionals of complex Ornstein-Uhlenbeck processes. (English summary) **99j:62122**

Artem′ev, S. S. (*with* Averina, T. A.) ★ Numerical analysis of systems of ordinary and stochastic differential equations. **99h:65121**

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65Y99 None of the above, but in this section

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68–01 Instructional exposition (textbooks, tutorial papers, etc.)

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Boissonnat, Jean-Daniel (*with* Yvinec, Mariette) ★ Algorithmic geometry. (English summary) **99g:68207**
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Anthes, Erhard Mechanische Rechenmaschinen. Zur Geschichte und Didaktik. [Mechanical calculating machines. On the history and didactics of the subject] (*see* **99d:00011**)
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Lee, John A. N. Computer pioneers from Eastern and Central Europe. **99i:01028**
— William Atchison [1918–1998].
— Reynold B. Johnson [1906–1998].
Machover, Carl An interview with Andries van Dam. **99m:01079**
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Shamos, Michael Ian The early years of computational geometry—a personal memoir. (English summary) **99h:68169**

Simon, Herbert A. Allen Newell: 1927–1992. **99m:01089**
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— ★ Automata, languages and programming. **99m:68007**
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Bratislava ★ Mathematical foundations of computer science 1997. **99d:68009**
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— ★ MFCS'98 Workshop on Concurrency. **99h:68010**
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Canberra ★ Theorem proving in higher order logics. **99k:68014**
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Cellular automata ★ Cellular automata. **99k:68007**
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Logic Programming and Nonmonotonic Reasoning ★ Logic programming and nonmonotonic reasoning. **99a:68011**
Mathematical Linguistics ★ Mathematical and computational analysis of natural language. **99g:68003**
Orders, Algorithms and Applications ★ ORDAL '96. **99m:68011**
Rewriting Techniques and Applications ★ Rewriting techniques and applications. **99d:68012**
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Theorem Proving in Higher Order Logics ★ Theorem proving in higher order logics. **99k:68014**
Theory and Practice of Software ★ Foundations of software science and computation structures. **99c:68005**
Typed Lambda-calculi and Applications ★ Typed lambda-calculi and applications. **99i:68006**
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Festschrift:
Ehrenfeucht, Andrzej ★ Structures in logic and computer science. **99b:68008**
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Fort Lauderdale, FL ★ Artificial intelligence and mathematics. VIII. **99m:68006**
Foundations of software science and computation structures ★ Foundations of software science and computation structures. **99c:68005**
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Handbook:
Graph grammars and computing by graph transformation ★ Handbook of graph grammars and computing by graph transformation. Vol. 1. **99b:68006**
Handbook of logic in artificial intelligence and logic programming ★ Handbook of logic in artificial intelligence and logic programming. Vol. 5. **99a:68009**
Havana ★ I Simposio de Inteligencia Artificial. (Spanish) [First Symposium on Artificial Intelligence] **99m:68013**
Hong Kong ★ Second Annual International Computing and Combinatorics Conference. **99k:68009**
Houston, TX ★ Robotics: the algorithmic perspective. **99m:68012**
IEEE Conference:
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IEEE Symposium:
Foundations of Computer Science ★ 36th Annual Symposium on Foundations of Computer Science. **99a:68010**
Logic in Computer Science ★ Thirteenth Annual IEEE Symposium on Logic in Computer Science. **99h:68008**
In memoriam of Ronald V. Book ★ In memoriam of Ronald V. Book.
Indianapolis, IN ★ Thirteenth Annual IEEE Symposium on Logic in Computer Science. **99h:68008**
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J.UCS. The Journal of Universal Computer Science ★ J.UCS. The Journal of Universal Computer Science. Vol. 2. 1996. **99k:68011**
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Memorial Issue:
Book, Ronald V. ★ In memoriam of Ronald V. Book.
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Santa Cruz, CA ★ Eighth Annual Workshop on Computational Learning Theory (COLT). **99a:68019**
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  Algorithmic Foundations of Robotics ★ Robotics: the algorithmic perspective. **99m:68012**
  Algorithmic Learning Theory ★ ALT 94 and AII 94. **99g:68001**
  Algorithms and Data Structures ★ International Workshop on Algorithms and Data Structures. **99i:68007**
  Analogical and Inductive Inference ★ ALT 94 and AII 94. **99g:68001**
  Approximation Algorithms for Combinatorial Optimization Problems ★ Approximation algorithms for combinatorial optimization. **99i:68002**
  Coalgebraic Methods in Computer Science ★ First Workshop on Coalgebraic Methods in Computer Science (CMCS '98). **99e:68002**
  Computational Learning Theory ★ Eighth Annual Workshop on Computational Learning Theory (COLT). **99a:68019**
  Concurrency ★ MFCS'98 Workshop on Concurrency. **99h:68010**
  Concurrency Theory and Applications ★ Concurrency theory and applications '96. **99a:68004**
  Concurrent Constraint Programming for Time Critical Applications and Multi-agent Systems ★ COTIC '98: Second Workshop on Concurrent Constraint Programming for Time Critical Applications and Multi-agent Systems. **99h:68011**
  Database Programming Languages; ★ Database programming languages. **99h:68004**
  DNA Based Computers ★ DNA based computers II. **99f:68002**
  — ★ DNA based computers. III. **99m:68008**
  Expressiveness in Concurrency ★ Fifth International Workshop on Expressiveness in Concurrency (EXPRESS '98). **99f:68013**
  Formal Foundations of Software Systems ★ US-Brazil Joint Workshops on the Formal Foundations of Software Systems. **99h:68012**
  Formal Models of Programming and their Applications ★ Proceedings of the International Summer School and Workshop on Formal Models of Programming and their Applications. **99i:68004**

Workshop: (*cont'd.*)
Graph-theoretic Concepts in Computer Science ★ Graph-theoretic concepts in computer science. **99d:68005**
— ★ Graph-theoretic concepts in computer science. **99b:68005**
High-level Concurrent Languages ★ HLCL '98 3rd International Workshop on High-level Concurrent Languages. **99g:68009**
Higher-order Algebra, Logic and Term Rewriting ★ Algebraic and logic programming. **99b:68002**
Higher-order Operational Techniques in Semantics ★ Second Workshop on Higher-order Operational Techniques in Semantics (HOOTS II). **99e:68003**
Inducing Complex Representations ★ Learning and reasoning with complex representations. **99f:68003**
Inductive Logic Programming ★ Inductive logic programming. **99b:68007**
International Association of Pattern Recognition ★ Advances in pattern recognition. **99k:68002**
Logic in Computer Science ★ Proceedings of the First Japan-New Zealand Workshop on Logic in Computer Science. **99g:68006**
Logic Programming and Knowledge Representation ★ Logic programming and knowledge representation. **99i:68003**
Logical Aspects of Computational Linguistics ★ Recent advances in logical and algebraic approaches to grammar. **99k:68013**
Multichannel Optical Networks: Theory and Practice ★ Multichannel optical networks: theory and practice. **99g:68004**
Networks in Distributed Computing ★ Networks in distributed computing. **99h:68009**
Pattern Recognition ★ III Taller Iberoamericano de Reconocimiento de Patrones. (Spanish) [III Ibero-American Workshop on Pattern Recognition] **99k:68016**
Proof Search in Type-theoretic Languages ★ Workshop on Proof Search in Type-theoretic Languages. **99h:68013**
Randomization Methods in Algorithm Design ★ Randomization methods in algorithm design. **99f:68007**
Randomized Algorithms ★ Randomized algorithms. **99f:68008**
Reasoning with Incomplete and Changing Information ★ Learning and reasoning with complex representations. **99f:68003**
Rewriting Logic and its Applications ★ International Workshop on Rewriting Logic and its Applications. **99h:68014**
Statistical Techniques in Pattern Recognition ★ Advances in pattern recognition. **99k:68002**
Structural and Syntactic Pattern Recognition ★ Advances in pattern recognition. **99k:68002**
Symbolic Rewriting Techniques ★ Symbolic rewriting techniques. **99a:68014**
Temporal Representation and Reasoning ★ Temporal representation and reasoning. **99a:68016**

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(Brüderlin, Beat) *see* **Geometric constraint solving and applications, 99e:68167**
(Cucker, Felipe) *see* **Foundations of computational mathematics, 99g:00039**
(Ehrhard, Thomas) *see* **Logic and models of computation, 99h:03001**
(Ferreira, Afonso Galvao) *see* **Parallel algorithms for irregularly structured problems, 99g:65007**
(Fiat, Amos) *see* **Online algorithms, 99m:68003**
(Fraternali, Piero) *see* **Proceedings: Workshop on Deductive Databases and Logic Programming, 99g:68052**
(Geske, Ulrich) *see* **Proceedings: Workshop on Deductive Databases and Logic Programming, 99g:68052**
(Heijmans, Henk J. A. M.) *see* **Mathematical morphology and its applications to image and signal processing, 99g:68217**
(Hemaspaandra, Lane A.) *see* **Complexity theory retrospective, 99a:68078**
(Hoffman, Frederick) *see* **Mathematical aspects of artificial intelligence, 99g:68162**
(Lafont, Yves) *see* **Logic and models of computation, 99h:03001**
(McNamara, Paul F.) *see* **Norms, logics and information systems, 99k:03014**
(Pieper, Gail W.) *see* **Automated reasoning and its applications, 99a:68152**
(Prakken, Henry) *see* **Norms, logics and information systems, 99k:03014**
(Ratsch, U.) *see* **Intelligence and artificial intelligence, 99d:68211**
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(Rolim, José D. P.) *see* **Parallel algorithms for irregularly structured problems, 99g:65007**
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(Ruiz, Carolina) *see* **Proceedings: Workshop on Deductive Databases and Logic Programming, 99g:68052**
(Saad, Youcef) *see* **Parallel algorithms for irregularly structured problems, 99g:65007**
(Seidel, Raimund) *see* **ACM Symposium: Computational Geometry, 99d:68241**
(Seipel, Dietmar) *see* **Proceedings: Workshop on Deductive Databases and Logic Programming, 99g:68052**
(Selman, Alan L.) *see* **Complexity theory retrospective, 99a:68078**
(Shub, Michael) *see* **Foundations of computational mathematics, 99g:00039**
(Stamatescu, Ion-Olimpiu) *see* **Intelligence and artificial intelligence, 99d:68211**
(Veroff, Robert) *see* **Automated reasoning and its applications, 99a:68152**
(Woeginger, Gerhard J.) *see* **Online algorithms, 99m:68003**
(Wos, Larry) *see* **Automated reasoning and its applications, 99a:68152**
(Yang, Tao[2]) *see* **Parallel algorithms for irregularly structured problems, 99g:65007**

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ACM Symposium:
Computational Geometry ★ ACM Symposium on Computational Geometry. **99d:68241**
Amsterdam ★ Mathematical morphology and its applications to image and signal processing. **99g:68217**
Automated reasoning and its applications ★ Automated reasoning and its applications. **99a:68152**
Biography:
Wos, Lawrence Thomas ★ Automated reasoning and its applications. **99a:68152**
Boca Raton, FL ★ Proceedings of the Twenty-ninth Southeastern International Conference on Combinatorics, Graph Theory and Computing. **99i:00020**
— ★ Proceedings of the Twenty-ninth Southeastern International Conference on Combinatorics, Graph Theory and Computing. **99i:00024**
Bologna ★ Norms, logics and information systems. **99k:03014**
Complexity theory retrospective ★ Complexity theory retrospective. II. **99a:68078**
Conference:
Combinatorics, Graph Theory and Computing ★ Proceedings of the Twenty-ninth Southeastern International Conference on Combinatorics, Graph Theory and Computing. **99i:00020**
— ★ Proceedings of the Twenty-ninth Southeastern International Conference on Combinatorics, Graph Theory and Computing. **99i:00024**
Foundations of Computational Mathematics ★ Foundations of computational mathematics. **99g:00039**
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Logical Aspects of Computational Linguistics ★ Logical aspects of computational linguistics. **99d:03004**
Festschrift:
Wos, Lawrence Thomas ★ Automated reasoning and its applications. **99a:68152**
Foundations of computational mathematics ★ Foundations of computational mathematics. **99g:00039**
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Intelligence and artificial intelligence ★ Intelligence and artificial intelligence. **99d:68211**
Lecture Notes in Computer Science ★ Parallel algorithms for irregularly structured problems. **99g:65007**
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— ★ Online algorithms. **99m:68003**
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Manchester ★ Proceedings of the 6th International Workshop on Deductive Databases and Logic Programming (DDLP'98). **99g:68052**
Marseille ★ {Logic and models of computation}. **99h:03001**
Mathematical aspects of artificial intelligence ★ Mathematical aspects of artificial intelligence. **99g:68162**
Mathematical morphology and its applications to image and signal processing ★ Mathematical morphology and its applications to image and signal processing. **99g:68217**
Nancy ★ Logical aspects of computational linguistics. **99d:03004**
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Parallel algorithms for irregularly structured problems ★ Parallel algorithms for irregularly structured problems. **99g:65007**
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Conference on Combinatorics, Graph Theory and Computing ★ Proceedings of the Twenty-ninth Southeastern International Conference on Combinatorics, Graph Theory and Computing. **99i:00020**
— ★ Proceedings of the Twenty-ninth Southeastern International Conference on Combinatorics, Graph Theory and Computing. **99i:00024**
Proceedings of Symposia in Applied Mathematics ★ Mathematical aspects of artificial intelligence. **99g:68162**
Workshop on Deductive Databases and Logic Programming ★ Proceedings of the 6th International Workshop on Deductive Databases and Logic Programming (DDLP'98). **99g:68052**
Rio de Janeiro ★ Foundations of computational mathematics. **99g:00039**
Santa Barbara, CA ★ Parallel algorithms for irregularly structured problems. **99g:65007**
Schloß Dagstuhl ★ Online algorithms. **99m:68003**
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Logic Programming ★ Proceedings of the 6th International Workshop on Deductive Databases and Logic Programming (DDLP'98). **99g:68052**
Mathematical Morphology and its Applications to Image and Signal Processing ★ Mathematical morphology and its applications to image and signal processing. **99g:68217**
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Competitive Analysis of On-line Algorithms ★ Online algorithms. **99m:68003**
Deductive Databases and Logic Programming ★ Proceedings of the 6th International Workshop on Deductive Databases and Logic Programming (DDLP'98). **99g:68052**
Deontic Logic in Computer Science ★ Norms, logics and information systems. **99k:03014**
Parallel Algorithms for Irregularly Structured Problems ★ Parallel algorithms for irregularly structured problems. **99g:65007**

68Mxx Computer system organization

68M05 General

Items with secondary classifications in 68M05

Iyengar, S. S. *see* **Xavier, C., 99k:68073**

Kantabutra, Vitit Reaching a point with an unanchored robot arm in a square. (English summary) **99g:70009**
Xavier, C. (*with* Iyengar, S. S.) ★ Introduction to parallel algorithms. (English summary) **99k:68073**

68M07 Mathematical problems of computer architecture

Attiya, Hagit (*with* Friedman, Roy) A correctness condition for high-performance multiprocessors. (English summary) **99b:68009**
Blake, Ian F. *see* **Wu, Huapeng; et al., 99i:68008**
Černý, Anton Optimal description of automatic paperfolding sequences. (English summary)
Chandra, Tushar Deepak *see* **Jayanti, Prasad; et al., 99g:68010**
Chernyavskiĭ, A. F. *see* **Kolyada, A. A.; et al.**
Drolet, Germain A new representation of elements of finite fields GF(2^m) yielding small complexity arithmetic circuits. (English summary) **99h:68015**
Frank, Michael Patrick (*with* Knight, Thomas F., Jr.; Margolus, Norm) Reversibility in optimally scalable computer architectures. (English summary) (*see* **99f:68012**)
Friedman, Roy *see* **Attiya, Hagit, 99b:68009**
Hasan, M. Anwarul Double-basis multiplicative inversion over GF(2^m). (English summary) **99h:68016**
— *see also* **Wu, Huapeng; et al., 99i:68008**
Jayanti, Prasad (*with* Chandra, Tushar Deepak; Toueg, Sam) Fault-tolerant wait-free shared objects. (English summary) **99g:68010**
Kaufmann, Matt *see* **Moore, J. Strother; et al.**
Keller, Jörg *see* **Rederlechner, Bernd**
Knight, Thomas F., Jr. *see* **Frank, Michael Patrick; et al., (99f:68012)**
Kolyada, A. A. (*with* Revinskiĭ, V. V.; Selyaninov, M. Yu.; Chernyavskiĭ, A. F.) Minimally redundant polynomial-scalar modular number systems. (Russian. English and Russian summaries)
Lu, Ying Ping *see* **Yang, Guan Zhong; et al.**
Lynch, Thomas W. *see* **Moore, J. Strother; et al.**
Margolus, Norm *see* **Frank, Michael Patrick; et al., (99f:68012)**
Miranker, Willard L. (*with* Mjolsness, Eric) A Lagrangian formulation of neural networks. II. Clocked objective functions and applications. (English summary) **99m:68014b**
— *see also* **Mjolsness, Eric, 99m:68014a**
Mjolsness, Eric (*with* Miranker, Willard L.) A Lagrangian formulation of neural networks. I. Theory and analog dynamics. (English summary) **99m:68014a**
— *see also* **Miranker, Willard L., 99m:68014b**
Moore, J. Strother (*with* Lynch, Thomas W.; Kaufmann, Matt) A mechanically checked proof of the AMD5$_K$86™ floating-point division program. (English summary)
Pekmestzi, Kiamal Z. Multiplexer-based array multipliers. (English summary)
Rederlechner, Bernd (*with* Keller, Jörg) A note on correctness proofs for overflow detection logic in adders for d-th complement numbers. (English summary)
Revinskiĭ, V. V. *see* **Kolyada, A. A.; et al.**
Russinoff, David M. A mechanically checked proof of IEEE compliance of the floating point multiplication, division and square root algorithms of the AMD-K7™ processor. (English summary) **99m:68015**
Selyaninov, M. Yu. *see* **Kolyada, A. A.; et al.**
Shauman, A. M. Composite number systems with a binary alphabet. (Russian. Russian summary) **99e:68004**
— Realization of arithmetic operations in binary-ternary number systems. (Russian. Russian summary) **99h:68017**
Shi, Jun *see* **Tang, Ben Rong**
Shimizu, Kensuke *see* **Wei, Shugang, (99i:03025)**
Tamaki, Hisao Efficient self-embedding of butterfly networks with random faults. (English summary) **99c:68007**
Tang, Ben Rong (*with* Shi, Jun) A high-speed algorithm for binary double operands addition. (Chinese. English and Chinese summaries)
Toueg, Sam *see* **Jayanti, Prasad; et al., 99g:68010**
Wang, Rong Xiang *see* **Yang, Guan Zhong; et al.**
Wei, Shugang (*with* Shimizu, Kensuke) Residue arithmetic circuits based on the signed-digit multiple-valued arithmetic circuits. (English summary) (*see* **99i:03025**)
Wu, Huapeng (*with* Hasan, M. Anwarul; Blake, Ian F.) New low-complexity bit-parallel finite field multipliers using weakly dual bases. (English summary) **99i:68008**
Yang, Guan Zhong (*with* Lu, Ying Ping; Wang, Rong Xiang) State minimization of category 1 incompletely specified sequential machines. (Chinese. English and Chinese summaries)

Items with secondary classifications in 68M07

Amyeen, M. E. *see* **Kaykobad, M.; et al.**
Arnold, Mark G. (*with* Bailey, Thomas A.; Cowles, John R.; Winkel, Mark D.) Arithmetic co-transformations in the real and complex logarithmic number systems. (English summary) **99d:65382**
Bailey, Thomas A. *see* **Arnold, Mark G.; et al., 99d:65382**
Bazhanov, Yu. S. *see* **Kondrat'ev, Vyacheslav Vasil'evich**
Burgess, Colin J. (*with* Chalmers, Alan G.) Optimisation of irregular multiprocessor computer architectures using genetic algorithms. (English summary) (*see* **99k:90002**)
Chakrabarti, P. P. *see* **Mandal, C. A.; et al., 99b:68098**
Chalmers, Alan G. *see* **Burgess, Colin J., (99k:90002)**
Chen, Fujie *see* **Jin, Guohua; et al., 99c:68055**
Cowles, John R. *see* **Arnold, Mark G.; et al., 99d:65382**
Damm, W. (*with* Pnueli, Amir; Ruah, S.) Herbrand automata for hardware verification. (English summary) **99m:68118**
Du, Yi^2 (*with* Masson, Gerald M.) Strictly nonblocking conferencing meshes. (English summary) (*see* **99a:94001**)
Dubois, Michel *see* **Pong, Fong, 99j:68082**
Ghose, Suranjan *see* **Mandal, C. A.; et al., 99b:68098**
Islam, Md. M. *see* **Kaykobad, M.; et al.**
Jin, Guohua (*with* Li, Zhiyuan; Chen, Fujie) An efficient solution to the cache thrashing problem caused by true data sharing. (English summary) **99c:68055**
Kaykobad, M. (*with* Islam, Md. M.; Amyeen, M. E.; Murshed, M. M.) 3 is a more promising algorithmic parameter than 2. (English summary)
Kondrat'ev, Vyacheslav Vasil'evich (*with* Bazhanov, Yu. S.) A stream approach to the structural-time coordination of digital computing devices and systems. (Russian)
Krämer, Walter Stephan A priori worst case error bounds for floating-point computations. (English summary) **99f:65210**
Li, Zhiyuan *see* **Jin, Guohua; et al., 99c:68055**
Mandal, C. A. (*with* Chakrabarti, P. P.; Ghose, Suranjan) Some new results in the complexity of allocation and binding in data path synthesis. (English summary) **99b:68098**
Masson, Gerald M. *see* **Du, Yi^2, (99a:94001)**
Matsuura, Akihiro (*with* Nagoya, Akira) Formulation of the addition-shift-sequence problem and its complexity. (English summary) **99f:68104**
Milosavljević, D. *see* **Milovanović, E. I.; et al., 99d:68127**
Milovanović, E. I. (*with* Milovanović, Gradimir V.; Milovanović, Igor Ž.; Milosavljević, D.) Designing hexagonal systolic array by composite mappings. (English summary) **99d:68127**
Milovanović, Gradimir V. *see* **Milovanović, E. I.; et al., 99d:68127**
Milovanović, Igor Ž. *see* **Milovanović, E. I.; et al., 99d:68127**
Minakawa, Tsuyoshi (*with* Sugihara, Kōkichi) Topology oriented vs. exact arithmetic—experience in implementing the three-dimensional convex hull algorithm. (English summary) (*see* **99f:68001**)
Murshed, M. M. *see* **Kaykobad, M.; et al.**
Nagoya, Akira *see* **Matsuura, Akihiro, 99f:68104**
Nakajima, Kazuo *see* **Narasimhan, Jagannathan; et al., 99j:68109**
Narasimhan, Jagannathan (*with* Nakajima, Kazuo; Rim, Chong S.) A graph theoretical approach for the yield enhancement of reconfigurable VLSI/WSI arrays. (English summary) **99j:68109**
Nikolos, Dimitris Optimal self-testing embedded parity checkers. (English summary) **99c:94076**
Pnueli, Amir *see* **Damm, W.; et al., 99m:68118**
Pong, Fong (*with* Dubois, Michel) Formal verification of complex coherence protocols using symbolic state models. (English summary) **99j:68082**
Rim, Chong S. *see* **Narasimhan, Jagannathan; et al., 99j:68109**
Ruah, S. *see* **Damm, W.; et al., 99m:68118**
Slobodová, Anna On the composition problem for OBDDs with multiple variable orders. (English summary) (*see* **99m:68010**)
Sugihara, Kōkichi *see* **Minakawa, Tsuyoshi, (99f:68001)**
Val'kovskiĭ, V. A. (*with* Zerbino, D. D.) Realization of arithmetic computations in codes with alternating signs in cellular automata. (Russian. English, Russian and Ukrainian summaries)
Winkel, Mark D. *see* **Arnold, Mark G.; et al., 99d:65382**
Zerbino, D. D. *see* **Val'kovskiĭ, V. A.**

68M10 Computer networks [see also 90B12]

Al-Ayyoub, Abdel-Elah (*with* Day, Khaled) Block-cyclic matrix triangulation on the Cartesian product of star graphs. (English summary) **99d:68016**
Al-Hallaq, Abdulraouf Y. Classifying and counting the permutations passable by the extra-stage multistage interconnection networks. (English and Arabic summaries)
Alstrup, Stephen (*with* Holm, Jacob; de Lichtenberg, Kristian; Thorup, Mikkel) Direct routing on trees (extended abstract). (English summary) (*see* **99d:68011**)
Anisimov, A. V. Fibonacci hypercube. (English summary) **99k:68017**
Aspnes, James (*with* Hurwood, William) Spreading rumors rapidly despite an adversary. (English summary) **99b:68010**
Atallah, Mikhail J. (*with* Comer, Douglas E.) Algorithms for variable length subnet address assignment. (English summary) **99d:68017**
Avior, A. (*with* Calamoneri, T.; Even, Shimon; Litman, Ami; Rosenberg, Arnold L.) A tight layout of the butterfly network. (English summary) **99b:68011**
Azevedo, M. M. (*with* Bagherzadeh, N.; Dowd, Martin J.; Latifi, Shahram) Average distance and routing algorithms in the star-connected cycles interconnection network. (English summary) **99g:68011**
Bagherzadeh, N. *see* **Azevedo, M. M.; et al., 99g:68011**
Bai, Leqiang (*with* Ebara, Hiroyuki; Nakano, Hideo[1]; Maeda, Hajime) An adaptive distributed fault-tolerant routing algorithm for the star graph. (English summary) (*see* **99f:68001**)
— (*with* Maeda, Hajime; Ebara, Hiroyuki; Nakano, Hideo[1]) A broadcasting algorithm with time and message optimum on arrangement graphs. (English summary) **99c:68008**
Baldoni, Roberto A positive acknowledgment protocol for causal broadcasting. (English summary)
Bao, Feng (*with* Igarashi, Yoshihide; Öhring, Sabine R.) Reliable broadcasting in product networks. (English summary) **99c:68009**
Battiti, Roberto (*with* Bertossi, A.; Rizzi, Romeo) Randomized greedy algorithms for the hypergraph partitioning problem. (English summary) (*see* **99f:68007**)
Ben-Aroya, I. (*with* Chinn, D. D.; Schuster, Assaf) A lower bound for nearly minimal adaptive and hot potato algorithms. (English summary) **99d:68018**
Bermond, Jean-Claude (*with* Gargano, Luisa; Pérennes, Stéphane) Optimal sequential gossiping by short messages. (English summary) **99d:68019**
Bertossi, A. *see* **Battiti, Roberto; et al., (99f:68007)**
Borodin, Allan (*with* Raghavan, Prabhakar; Schieber, Baruch; Upfal, Eli) How much can hardware help routing? (English summary) **99b:68012**
Bourgeois, Anu G. *see* **Trahan, Jerry L.; et al., 99f:68019**
Broder, Andrei Z. (*with* Frieze, Alan M.; Upfal, Eli) Dynamic packet routing on arrays with bounded buffers. (English summary) **99g:68012**
Calamoneri, T. *see* **Avior, A.; et al., 99b:68011**
Çam, Hasan Preventing conflicts in input buffering baseline-based ATM switches. (English summary) (*see* **99a:94001**)

Cao, Feng[1] (*with* Du, Ding Zhu; Hsu, D. Frank; Teng, Shang-Hua) Fault tolerance properties of pyramid networks. (English summary) **99j:68002**
Chalamaiah, Nimmagadda (*with* Ramamurthy, Badrinath) Finding shortest paths in distributed loop networks. (English summary)
Chan, Wun-Tat (*with* Chin, Francis Y. L.) Algorithms for finding optimal disjoint paths around a rectangle. (English summary) (*see* **99f:68001**)
Chang, Chien-Ping (*with* Wang, Jyh-Nan; Hsu, Lih-Hsing) Topological properties of twisted cube. (English summary) **99g:68013**
Chen, Gen-Huey *see* **Su, Ming-Yang; et al., 99d:68024**
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Chlebus, Bogdan S. (*with* Diks, Krzysztof; Pelc, Andrzej) Transition-optimal token distribution. (English summary) **99g:68014**
Choi, Hyeong-Ah *see* **Harder, Eric J., 99i:68010**
Cicerone, Serafino (*with* Di Stefano, Gabriele; Flammini, Michele) Static and dynamic low-congested interval routing schemes. (English summary) (*see* **99m:68007**)
Colbourn, Charles J. (*with* Xue, Guo Liang) A linear time algorithm for computing the most reliable source on a series-parallel graph with unreliable edges. (English summary) **99h:68018**
Comer, Douglas E. *see* **Atallah, Mikhail J., 99d:68017**
Czumaj, Artur (*with* Gąsieniec, Leszek; Pelc, Andrzej) Time and cost trade-offs in gossiping. (English summary) **99j:68003**
Datta, Ajoy K. (*with* Gonzalez, Teofilo F.; Thiagarajan, Visalakshi) Self-stabilizing algorithms for tree metrics. (English summary) **99c:68010**
Day, Khaled *see* **Al-Ayyoub, Abdel-Elah, 99d:68016**
De Marco, Gianluca (*with* Gargano, Luisa; Vaccaro, Ugo) Concurrent multicast in weighted networks. (English summary) (*see* **99k:68003**)
Dessmark, Anders (*with* Lingas, Andrzej; Olsson, Hans; Yamamoto, Hiroaki) Optimal broadcasting in almost trees and partial k-trees. (English summary) (*see* **99f:68011**)
Diks, Krzysztof (*with* Kranakis, Evangelos; Pelc, Andrzej) Perfect broadcasting in unlabeled networks. (English summary) **99g:68015**
— (*with* Dobrev, Stefan; Kranakis, Evangelos; Pelc, Andrzej; Ružička, Peter) Broadcasting in unlabeled hypercubes with a linear number of messages. (English summary) **99b:68013**
— (*with* Kranakis, Evangelos; Pelc, Andrzej) Broadcasting in unlabeled tori. (English summary) **99f:68014**
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68Q30 Algorithmic information theory (Kolmogorov complexity, etc.)

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— (*with* Decatur, Scott E.) Specification and simulation of statistical query algorithms for efficiency and noise tolerance. (English summary) **99d:68212**
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Bartlett, Peter L. (*with* Long, Philip M.) Prediction, learning, uniform convergence, and scale-sensitive dimensions. (English summary) **99c:68207**
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68Rxx Discrete mathematics in relation to computer science

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San Francisco, CA ★ Proceedings of the Ninth Annual ACM-SIAM Symposium on Discrete Algorithms. **99d:68011**
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68R99 None of the above, but in this section

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(Longuet-Higgins, H. C.) *see* **New geometric techniques in computer vision, 99a:00034**
Lu, Mi (*with* Zhou, Liuding) A new algorithm for polynomial product modulo $(z^N + 1)$ implemented by the real-valued W transform. (English summary) (*see* **99f:68006**)
Ma, Song De *see* **Hu, Zhan Yi; et al., 99i:44006**
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Møller, Jesper M. (*with* Waagepetersen, Rasmus Plenge) Markov connected component fields. (English summary) **99e:60120**
Morel, Jean-Michel *see* **Guichard, Frédéric, 99c:65239**
Morita, Tohru Expansion in harmonic wavelets of a periodic function. (English summary) **99c:94008**
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Murtagh, Fionn *see* **Starck, J.-L.; et al., 99f:94004**
Nagy, James G. (*with* Pauca, V. Paul; Plemmons, Robert J.; Torgersen, Todd C.) Degradation reduction in optics imagery using Toeplitz structure. (English summary) **99e:78008**
Nalwa, Vishvjit S. The basis of computer vision. (English summary) (*see* **99g:68162**)
Nasrabadi, Nasser M. *see* **Wang, Lin-Cheng; et al.**
O'Gorman, Larry *see* **Bruckstein, Alfred M.; et al.**
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O'Sullivan, Joseph A. (*with* Blahut, Richard E.; Snyder, Donald L.) Information-theoretic image formation. (English summary) **99i:94012**
Pardalos, Panos M. (*with* Xue, Guo Liang) Algorithms for a class of isotonic regression problems. (English summary) **99j:65252**
Parks, Thomas W. *see* **Liang, Jie**
Pauca, V. Paul *see* **Nagy, James G.; et al., 99e:78008**
(Picci, Giorgio) *see* **Dynamical systems, control, coding, computer vision, 99k:93006**
Plemmons, Robert J. *see* **Nagy, James G.; et al., 99e:78008**
Poggi, Giovanni *see* **Canta, Gerardo R., 99m:94021**
Popkov, A. Yu. (*with* Popkov, E. Yu.; Popkov, Yu. S.) Multiplicative algorithms for reconstructing images from projections. (Russian. Russian summary) **99e:94010**
Popkov, E. Yu. *see* **Popkov, A. Yu.; et al., 99e:94010**
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Popov, Antony T. Numerical and approximation tools based on mathematical morphology. (English summary) **99h:65098**
Rahman, Zia-ur *see* **Huck, Friedrich O.; et al., 99b:94010**
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Richardson, T. J. (*with* Mitter, Sanjoy K.) A variational formulation-based edge focussing algorithm. (English summary) **99e:49015**
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Roerdink, Jos B. T. M. *see* **Tuzikov, A. V.; et al., 99k:52014**
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Sethian, James A. Theory, algorithms, and applications of level set methods for propagating interfaces. (English summary) **99d:65397**
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Sladoje, Nataša (*with* Žunić, Joviša D.) A reconstruction of digital parabolas from their least squares fit representation. (English summary)
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Starck, J.-L. (*with* Murtagh, Fionn; Bijaoui, A.) ★ Image processing and data analysis. (English summary) **99f:94004**
Stong, Richard A. Mapping $\mathbf{Z}^r$ into $\mathbf{Z}^s$ with maximal contraction. (English summary) **99d:54015**
Tang, Min (*with* Li, Jun[5]; Hu, Zhan Yi) A comparison between the randomized Hough transformation and the Tabu search algorithm in geometric primitive extraction. (Chinese. English and Chinese summaries)
Torgersen, Todd C. *see* **Nagy, James G.; et al., 99e:78008**
Turski, Jacek Harmonic analysis on $SL(2, \mathbf{C})$ and projectively adapted pattern representation. (English summary) **99h:22010**
Tuzikov, A. V. (*with* Roerdink, Jos B. T. M.; Heijmans, Henk J. A. M.; Sheĭnin, S. A.) Measures and indices of reflection symmetry for convex polyhedra. (English summary) **99k:52014**
Ulich, Gabriele Provably convergent methods for the linear and nonlinear Shape from Shading problem. (English summary) **99d:65057**
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Wang, Jia Song *see* **Ji, Hui, 99c:94014**
Wang, Lin-Cheng (*with* Rizvi, Syed A.; Nasrabadi, Nasser M.) A modular neural network vector predictor for predictive image coding. (English summary)
Wang, Wei *see* **Hu, Zhan Yi; et al., 99i:44006**
Xue, Guo Liang *see* **Pardalos, Panos M., 99j:65252**
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(Zisserman, Andrew) *see* **New geometric techniques in computer vision, 99a:00034**
Žunić, Joviša D. *see* **Sladoje, Nataša**

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Dynamical systems, control, coding, computer vision ★ Dynamical systems, control, coding, computer vision. **99k:93006**
London ★ New geometric techniques in computer vision. **99a:00034**

Meeting:
New Geometric Techniques in Computer Vision ★ New geometric techniques in computer vision. **99a:00034**
New geometric techniques in computer vision ★ New geometric techniques in computer vision. **99a:00034**
Padova ★ Dynamical systems, control, coding, computer vision. **99k:93006**
Symposium:
Mathematical Theory of Networks and Systems ★ Dynamical systems, control, coding, computer vision. **99k:93006**

68U15 Text processing; mathematical typography

Levene, Mark (*with* Loizou, George) A probabilistic approach to navigation in Hypertext. (English summary) **99j:68148**
Loizou, George *see* **Levene, Mark**, **99j:68148**

Items with secondary classifications in 68U15

(Apostolico, Alberto) *see* **Pattern matching algorithms**, **99f:68109**
Baeza-Yates, Ricardo A. Similarity in two-dimensional strings. (English summary) **99m:68067**
— (*with* Navarro, Gonzalo) Fast two-dimensional approximate pattern matching. (English summary) (*see* **99d:68007**)
Brüggemann-Klein, Anne (*with* Wood, Derick) One-unambiguous regular languages. (English summary) **99a:68104**
Dohmen, Klaus Inclusion-exclusion and network reliability. (English summary) **99d:60008**
(Farach-Colton, Martin) *see* **Combinatorial pattern matching**, **99h:68002**
(Galil, Zvi) *see* **Pattern matching algorithms**, **99f:68109**
Guimarães, Katia *see* **Myers, Eugene W.; et al.**, (**99h:68002**)
Gusfield, Dan ★ Algorithms on strings, trees, and sequences. (English summary) **99b:68095**
Kershenbaum, Aaron *see* **Ziv-Ukelson, Michal**, (**99h:68002**)
Myers, Eugene W. (*with* Oliva, Paulo; Guimarães, Katia) Reporting exact and approximate regular expression matches. (English summary) (*see* **99h:68002**)
Myers, Gene A fast bit-vector algorithm for approximate string matching based on dynamic programming. (English summary) (*see* **99h:68002**)
Navarro, Gonzalo (*with* Raffinot, Mathieu) A bit-parallel approach to suffix automata: fast extended string matching. (English summary) **99j:68055**
— Improved approximate pattern matching on hypertext. (English summary) (*see* **99d:68007**)
— *see also* **Baeza-Yates, Ricardo A.**, (**99d:68007**)
Oliva, Paulo *see* **Myers, Eugene W.; et al.**, (**99h:68002**)
Raffinot, Mathieu *see* **Navarro, Gonzalo**, **99j:68055**
Wood, Derick *see* **Brüggemann-Klein, Anne**, **99a:68104**
Ziv-Ukelson, Michal (*with* Kershenbaum, Aaron) A dictionary matching algorithm fast on the average for terms of varying length. (English summary) (*see* **99h:68002**)

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Combinatorial pattern matching ★ Combinatorial pattern matching. **99h:68002**
Lecture Notes in Computer Science ★ Combinatorial pattern matching. **99h:68002**
Pattern matching algorithms ★ Pattern matching algorithms. **99f:68109**
Piscataway, NJ ★ Combinatorial pattern matching. **99h:68002**
Symposium:
Combinatorial Pattern Matching ★ Combinatorial pattern matching. **99h:68002**

68U20 Simulation [see also 65Cxx]

Barbosa, Valmir C. *see* **Wedemann, Roseli S.; et al.**
Barrett, Chris (*with* Reidys, C. M.) Elements of a theory of computer simulation. I. Sequential CA over random graphs. (English summary) **99h:68181**
Donangelo, Raul *see* **Wedemann, Roseli S.; et al.**
Reidys, C. M. *see* **Barrett, Chris**, **99h:68181**
Wedemann, Roseli S. (*with* Barbosa, Valmir C.; Donangelo, Raul) Defeasible time-stepping. (English summary)

Items with secondary classifications in 68U20

Chen, Liang^{8} (*with* Serfozo, Richard F.) Performance limitations of parallel simulations. (English summary) **99d:68031**
Diamond, Phil (*with* Kloeden, Peter E.; Kozyakin, V. S.; Pokrovskiĭ, A. V.) Boundedness and dissipativity of truncated rotations on uniform planar lattices. (English summary) **99f:52020**
Gentle, James E. ★ Random number generation and Monte Carlo methods. (English summary) **99j:65009**
Kloeden, Peter E. *see* **Diamond, Phil; et al.**, **99f:52020**
Kozyakin, V. S. *see* **Diamond, Phil; et al.**, **99f:52020**
Nakayama, Marvin K. Multiple-comparison procedures for steady-state simulations. (English summary) **99b:62110**
Pokrovskiĭ, A. V. *see* **Diamond, Phil; et al.**, **99f:52020**
Serfozo, Richard F. *see* **Chen, Liang^{8}**, **99d:68031**

68U30 Other applications

Beigel, Richard (*with* Tanin, Egemen) The geometry of browsing (invited paper). (English summary) (*see* **99d:68007**)
de Berg, Mark (*with* Meijer, Henk; Overmars, Mark H.; Wilfong, Gordon) Computing the angularity tolerance. (English summary) **99f:68208**
Keizelman, Alexander *see* **Sadeh, Ilan; et al.**, **99c:68263**
Meijer, Henk *see* **de Berg, Mark; et al.**, **99f:68208**
Overmars, Mark H. *see* **de Berg, Mark; et al.**, **99f:68208**
Sadeh, Ilan (*with* Keizelman, Alexander; Zak, Michael) Universal voice compression algorithms based on approximate string matching. (English summary) **99c:68263**
Tanin, Egemen *see* **Beigel, Richard**, (**99d:68007**)
Wilfong, Gordon *see* **de Berg, Mark; et al.**, **99f:68208**
Zak, Michael *see* **Sadeh, Ilan; et al.**, **99c:68263**

Items with secondary classifications in 68U30

Allen, Seth (*with* Dutta, Debasish) Wall thickness control in layered manufacturing for surfaces with closed slices. (English summary) **99d:68226**
Dudek, Gregory (*with* Romanik, Kathleen; Whitesides, S. H.) Localizing a robot with minimum travel. (English summary) **99b:68093**
Dutta, Debasish *see* **Allen, Seth**, **99d:68226**
Galaviz Casas, José Fractals and recursiveness. (Spanish. Spanish summary) (*see* **99f:00013**)
Romanik, Kathleen *see* **Dudek, Gregory; et al.**, **99b:68093**
Whitesides, S. H. *see* **Dudek, Gregory; et al.**, **99b:68093**

68U99 None of the above, but in this section

Bottoni, Paolo (*with* Levialdi, Stefano; Păun, Gheorghe) Successful visual human-computer interaction is undecidable. (English summary) **99c:68264**
Cohen, Edith (*with* Krishnamurthy, Balachander; Rexford, Jennifer) Evaluating server-assisted cache replacement in the web. (English summary) (*see* **99k:68004**)
Kleinberg, Jon M. Authoritative sources in a hyperlinked environment. (English summary) (*see* **99d:68011**)
Krishnamurthy, Balachander *see* **Cohen, Edith; et al.**, (**99k:68004**)
Levialdi, Stefano *see* **Bottoni, Paolo; et al.**, **99c:68264**
Păun, Gheorghe *see* **Bottoni, Paolo; et al.**, **99c:68264**
Rexford, Jennifer *see* **Cohen, Edith; et al.**, (**99k:68004**)

Items with secondary classifications in 68U99

Prechelt, Lutz Why we need an explicit forum for negative results. Announcement of the Forum for Negative Results (FNR). (English summary)

70–XX Mechanics of particles and systems {For relativistic mechanics, see 83A05 and 83C10; for statistical mechanics, see 82–XX.}

70–01 Instructional exposition (textbooks, tutorial papers, etc.)

Acheson, David ★ From calculus to chaos. (English summary) **99f:70001**
Borkowski, Szczepan ★ Mechanika ogólna. Tom 2. (Polish. Polish summary) [General mechanics. Vol. 2]
— ★ Mechanika ogólna. Tom 1. (Polish) [General mechanics. Vol. 1]
López Tascón, Carlos ★ Mecánica newtoniana. (Spanish) [Newtonian mechanics] **99h:70001**
McCauley, Joseph L. ★ Classical mechanics. (English summary) **99j:70001**

Items with secondary classifications in 70–01

Antman, Stuart S. The simple pendulum is not so simple. (English summary) **99k:70003**
José, Jorge V. (*with* Saletan, Eugene J.) ★ Classical dynamics. (English summary) **99g:70001**
Kharlamov, Pavel V. Contradictions in the principles of mechanics. (Russian. Serbian summary) **99e:70002**
Saletan, Eugene J. *see* **José, Jorge V., 99g:70001**

70–02 Research exposition (monographs, survey articles)

José, Jorge V. (*with* Saletan, Eugene J.) ★ Classical dynamics. (English summary) **99g:70001**
Layton, Richard A. ★ Principles of analytical system dynamics. (English summary) **99f:70001**
Saletan, Eugene J. *see* **José, Jorge V., 99g:70001**

Items with secondary classifications in 70–02

Cao, Tian Yu ★ Conceptual developments of 20th century field theories. **99d:81001**
Gemmi, M. *see* **Todesco, E.; et al., 99b:70017**
Giovannozzi, Massimo *see* **Todesco, E.; et al., 99b:70017**
Kaushal, R. S. ★ Classical and quantum mechanics of noncentral potentials. (English summary) **99k:81003**
Todesco, E. (*with* Gemmi, M.; Giovannozzi, Massimo) Evaluation of nonlinear resonances in 4D symplectic mappings. (English summary) **99b:70017**

70–03 Historical (must also be assigned at least one classification number from Section 01)

(Bogolyubov, Alekseĭ Nikolaevich) *see* **Pogrebysskiĭ, I. B., 99k:70001**
Carbonaro, Bruno (*with* Starita, Giulio) The principle of virtual velocities. **99g:70002**
— *see also* **Errata: "The principle of virtual velocities", (99m:35005)**
Lang, Reinhard Die Anziehung einer Kugel nach Newton. (German summary) [The attraction of a sphere according to Newton] **99a:70001**
(Pogrebysskaya, E. I.) *see* **Pogrebysskiĭ, I. B., 99k:70001**
Pogrebysskiĭ, I. B. ★ От Лагранжа к Эйнштейну. (Russian. Russian summary) [From Lagrange to Einstein] **99k:70001**
Starita, Giulio *see* **Carbonaro, Bruno, 99g:70002** *and* **Errata: "The principle of virtual velocities", (99m:35005)**

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Biography:
Pogrebysskiĭ, Iosif Benediktovich *see* **Pogrebysskiĭ, I. B., 99k:70001**
Errata:
"The principle of virtual velocities" An integration to: "The principle of virtual velocities" [in *Classical problems in mechanics*, 1–95, Aracne, Rome, 1997; MR 99g:70002] by B. Carbonaro and G. Starita. (*see* **99m:35005**)

Items with secondary classifications in 70–03

Antman, Stuart S. The simple pendulum is not so simple. (English summary) **99k:70003**
Blay, Michel Les règles cartésiennes de la science du mouvement dans *Le monde ou traité de la lumière*. (English and French summaries) [The Cartesian rules of the science of motion in *Le monde ou traité de la lumière*] **99k:01011**
Brackenridge, J. Bruce ★ The key to Newton's dynamics. (English summary) **99j:01006**
— The role of curvature in Newton's dynamics. (English summary) **99k:01012**
(Cini, Marcello) *see* **Russo, Lucio, 99g:01005**
Dell'Aglio, Luca The role of applications in the works of Levi-Civita. (Italian. English summary) **99a:01016**
(Descartes, René) *see* **Blay, Michel, 99k:01011**
(Diacu, Florin) *see* **Parker, Matthew W.**
Dobson, Geoffrey J. Newton's problems with rigid body dynamics in the light of his treatment of the precession of the equinoxes. **99e:01010**
Fuller, A. T. Maxwell's treatment of governors fitted with differential gears. (English summary)
(Galilei, Galileo) *see* **Palmieri, Paolo, 99k:01016**
(Gauss, Carl Friedrich) *see* **Reich, Karin, 99h:01028**
Grossman, Nathaniel Newton's quiescence of the apsides and radially-symmetric attractions to a center. **99d:70019**
(Holmes, Philip J.) *see* **Parker, Matthew W.**
(Jacobi, Carl Gustav Jacob) *see* **Pulte, Helmut, 99g:01022**
(Kant, Immanuel) *see* **Watkins, Eric, 99k:01022**
(Lagrange, Joseph-Louis) *see* **Pulte, Helmut, 99g:01022**
(Levi-Civita, Tullio) *see* **Dell'Aglio, Luca, 99a:01016**
Maravall Casesnoves, Darío The development of mechanics and mathematical physics in the XIXth century. (Spanish) **99k:01025a**
— The development of mechanics and mathematical physics in the XIXth century. II. (Spanish) **99k:01025b**
Nauenberg, Michael Newton's unpublished perturbation method for the lunar motion. (English summary) **99k:01015**
(Newton, Isaac) *see* **Dobson, Geoffrey J., 99e:01010** *and* **Weinstock, Robert, 99h:01025**
Palmieri, Paolo Re-examining Galileo's theory of tides. **99k:01016**
Parker, Matthew W. Did Poincaré really discover chaos? Essay review of *Celestial encounters* [Princeton Univ. Press, Princeton, 1996; MR 98e:70006] by F. Diacu and P. Holmes.
Pešić, P. D. Newton and hidden symmetry. (English summary) **99a:70012**
Pulte, Helmut Jacobi's criticism of Lagrange: the changing role of mathematics in the foundations of classical mechanics. (English, French and German summaries) **99g:01022**
Reich, Karin Gauß' *Theoria motus*: Entstehung, Quellen, Rezeption. [Gauss' *Theoria motus*: Evolution, origins, reception] **99h:01028**
(Rossi, Mary Ann) *see* **Brackenridge, J. Bruce, 99j:01006**
Russo, Lucio ★ La rivoluzione dimenticata. (Italian) [The forgotten revolution] **99g:01005**
Watkins, Eric Kant's justification of the laws of mechanics. **99k:01022**
Weinstock, Robert Newton's *Principia* and inverse-square orbits in a resisting medium: a spiral of twisted logic. (English, French and German summaries) **99h:01025**

70–04 Explicit machine computation and programs (not the theory of computation or programming)

Kugi, Andreas *see* **Schlacher, Kurt; et al., 99d:70001**
Scheidl, Rudolf *see* **Schlacher, Kurt; et al., 99d:70001**
Schlacher, Kurt (*with* Kugi, Andreas; Scheidl, Rudolf) Tensor analysis based symbolic computation for mechatronic systems. (English summary) **99d:70001**
Xue, Guo Liang An $O(n)$ time hierarchical tree algorithm for computing force field in n-body simulations. (English summary) **99a:70002**

Items with secondary classifications in 70–04

Abad, A. (*with* Elipe Sánchez, Antonio C.; Palacián, J.; San Juan, J. F.) ATESAT: a symbolic processor for artificial satellite theory. (English summary) **99a:70003**
Brown, I. C. (*with* Larcombe, P. J.) A survey of customised computer algebra programs for multibody dynamic modelling. (*see* **99h:93005**)
Elipe Sánchez, Antonio C. *see* **Abad, A.; et al., 99a:70003**
Evans, Denis J. *see* **Searles, Debra J.; et al., 99a:70005**
Farto, José-Miguel (*with* González, Ana-Belén; Martín Ordóñez, Pablo) An algorithm for the systematic construction of solutions to perturbed problems. (English summary) **99a:34157**
González, Ana-Belén *see* **Farto, José-Miguel; et al., 99a:34157**
Hamdouni, Aziz (*with* Taibi, Noureddine) Kane's formalism and Lie group theory. **99f:70017**
Isbister, Dennis J. *see* **Searles, Debra J.; et al., 99a:70005**
Larcombe, P. J. *see* **Brown, I. C., (99h:93005)**
Lesser, Martin ★ The analysis of complex nonlinear mechanical systems. (English summary) **99a:70020**
Leung, A. Y. T. (*with* Zhang, Qi Chang) Higher order normal form and period averaging. (English summary) **99g:34080**
Martín Ordóñez, Pablo *see* **Farto, José-Miguel; et al., 99a:34157**
Palacián, J. *see* **Abad, A.; et al., 99a:70003**
San Juan, J. F. *see* **Abad, A.; et al., 99a:70003**
Searles, Debra J. (*with* Isbister, Dennis J.; Evans, Denis J.) Non-equilibrium molecular dynamics integrators using Maple. (English summary) **99a:70005**
Taibi, Noureddine *see* **Hamdouni, Aziz, 99f:70017**
Zhang, Qi Chang *see* **Leung, A. Y. T., 99g:34080**

70–05 Experimental papers

Items with secondary classifications in 70–05

Jäckel, Peter (*with* Mullin, Tom) A numerical and experimental study of codimension-2 points in a parametrically excited double pendulum. (English summary) **99h:70027**
Mullin, Tom *see* **Jäckel, Peter, 99h:70027**
Tornambè, Antonio Modeling and control of impact in mechanical systems: theory and experimental results. (English summary) **99k:70019**

70–06 Proceedings, conferences, collections, etc.

(Baillieul, John) *see* **Essays on mathematical robotics, 99e:70001**
(Husty, Manfred L.) *see* **Advances in robot kinematics: analysis and control, 99d:70002**
(Lenarčič, Jadran) *see* **Advances in robot kinematics: analysis and control, 99d:70002**
(Moon, Francis C.) *see* **IUTAM Symposium: New Applications of Nonlinear and Chaotic Dynamics in Mechanics, 99h:70002**
(Sastry, S. Shankar) *see* **Essays on mathematical robotics, 99e:70001**
(Sussmann, Héctor J.) *see* **Essays on mathematical robotics, 99e:70001**

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Advances in robot kinematics: analysis and control ★ Advances in robot kinematics: analysis and control. **99d:70002**
Essays on mathematical robotics ★ Essays on mathematical robotics. **99e:70001**
Ithaca, NY ★ IUTAM Symposium on New Applications of Nonlinear and Chaotic Dynamics in Mechanics. **99h:70002**
IUTAM Symposium:
New Applications of Nonlinear and Chaotic Dynamics in Mechanics ★ IUTAM Symposium on New Applications of Nonlinear and Chaotic Dynamics in Mechanics. **99h:70002**
Minneapolis, MN ★ Essays on mathematical robotics. **99e:70001**

Salzburg ★ Advances in robot kinematics: analysis and control. **99d:70002**
Symposium:
Advances in Robot Kinematics ★ Advances in robot kinematics: analysis and control. **99d:70002**
Workshop:
Robotics ★ Essays on mathematical robotics. **99e:70001**

Items with secondary classifications in 70–06

(Bruno, Alexander D.) *see* **Simplification of systems of algebraic and differential equations with applications, 99a:00047**
(Cushman, Richard) *see* **Workshop: Nonholonomic Constraints in Dynamics, 99i:58004**
(Edneral, V. F.) *see* **Simplification of systems of algebraic and differential equations with applications, 99a:00047**
(Kozłowski, Krzysztof) *see* **Recent developments in robotics, 99b:70004**
(Śniatycki, Jędrzej) *see* **Workshop: Nonholonomic Constraints in Dynamics, 99i:58004**
(Steinberg, Stanly) *see* **Simplification of systems of algebraic and differential equations with applications, 99a:00047**
(Tulczyjew, Włodzimierz Marek) *see* **Geometrical structures for physical theories, 99a:58001** *and* **99a:58002**

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Bangalore ★ International Conference on Advances in Mechanical Engineering (ICAME). **99g:70013**
Birthday:
Tulczyjew, Włodzimierz Marek ★ Geometrical structures for physical theories. I. **99a:58001**
— ★ Geometrical structures for physical theories. II. **99a:58002**
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70B05 Kinematics of a particle

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70Dxx Dynamics of a particle [see also 70Hxx]

70D05 Newtonian dynamics

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70D10 Lagrangian dynamics

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70Exx Dynamics of a rigid body

70E05 Motion of the gyroscope

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Naumenko, K. I. Correction of a strapped-down inertial navigational system. (Russian. English, Russian and Ukrainian summaries) **99d:70041**
Orël, O. E. Algebro-geometric Poisson brackets in the problem of exact integration. (Russian. English and Russian summaries) **99j:58080**
Pandit, Sagar A. (*with* Gangal, Anil D.) On generalized Nambu mechanics. (English summary) **99d:70023**
Petrov, A. G. A proof of the instability of the equilibrium position of a ball in a nonhomogeneous potential flow. (Russian) **99k:76032**
Quadrelli, B. M. (*with* Atluri, S. N.) Analysis of flexible multibody systems with spatial beams using mixed variational principles. (English summary)
Rapaport, A. E. *see* **Astolfi, Alessandro**
Roberts, Richard Mark (*with* de Sousa Dias, M. E. R.) Bifurcations from relative equilibria of Hamiltonian systems. (English summary) **99b:58176**
Rotea, Mario A. (*with* Tsiotras, Panagiotis; Corless, Martin) Suboptimal control of rigid body motion with a quadratic cost. (English summary) **99j:93067**
— *see also* **Tsiotras, Panagiotis; et al.**, **99a:70046**
Ruina, Andy Nonholonomic stability aspects of piecewise holonomic systems. (English summary) **99k:70017**
Scheidl, Rudolf *see* **Schlacher, Kurt; et al.**, **99d:70001**
Schlacher, Kurt (*with* Kugi, Andreas; Scheidl, Rudolf) Tensor analysis based symbolic computation for mechatronic systems. (English summary) **99d:70001**
Ševera, Pavol On simplest Hamiltonian systems. (English summary) **99e:70052**
Shabana, Ahmed A. Computer implementation of the absolute nodal coordinate formulation for flexible multibody dynamics. (English summary)
Śniatycki, Jędrzej *see* **Cushman, Richard; et al.**, **99e:70037**
de Sousa Dias, M. E. R. *see* **Roberts, Richard Mark**, **99b:58176**
Sudarsan, R. (*with* Keerthi, S. Sathiya) An efficient approach for the numerical simulation of multibody systems. (English summary) **99d:34003**
— (*with* Keerthi, S. Sathiya) Numerical approaches for solution of differential equations on manifolds. (English summary) **99d:34004**
Tkhaĭ, V. N. Fixed sets and symmetric periodic motions of reversible mechanical systems. (Russian. Russian summary) **99c:34088**
Tsiotras, Panagiotis (*with* Corless, Martin; Rotea, Mario A.) Optimal control of rigid body angular velocity with quadratic cost. (English summary) **99a:70046**
— *see also* **Rotea, Mario A.; et al.**, **99j:93067**
Tsygvintsev, A. V. *see* **Borisov, Adriyan V.**, **99g:70022**
Ueno, Tatsuya General solution of 7D octonionic top equation. (English summary) **99j:58104**
— *see also* **Fairlie, David B.**, **99j:58071**
Vlahacos, Constantine P. *see* **Antman, Stuart S.; et al.**, **99e:73068**
Vorotnikov, V. I. On a nonlinear game-theoretic problem of an asymmetric solid "passing through" a given angular position. (Russian) **99a:70047**
— On the construction of game-theoretic bounded controls for nonlinear dynamical systems. (Russian. Russian summary) **99d:93047**
Wang, Jiegao (*with* Gosselin, Clément M.) A new approach for the dynamic analysis of parallel manipulators. (English summary) **99g:70012**
Wendlandt, Jeffrey M. (*with* Marsden, Jerrold E.) Mechanical integrators derived from a discrete variational principle. (English summary) **99d:70004**
Yurkin, M. Yu. On the stability of small oscillations of a rotating asymmetric top with fluid inside. (Russian) **99m:70003**
Zaremba, A. T. Stabilization of programmed motions of a rigid body under uncertainty about the parameters of the dynamics equations. (Russian. Russian summary) **99e:70069**

70E20 Perturbation methods for Euler's equations

Items with secondary classifications in 70E20

Benettin, Giancarlo (*with* Fassò, Francesco; Guzzo, Massimiliano) Fast rotations of the rigid body: a study by Hamiltonian perturbation theory. II. Gyroscopic rotations. (English summary) **99d:70012**
Fassò, Francesco *see* **Benettin, Giancarlo; et al., 99d:70012**
Guzzo, Massimiliano *see* **Benettin, Giancarlo; et al., 99d:70012**

70E99 None of the above, but in this section

Bakan, G. M. (*with* Radchenko, I. F.) A computation method for determining the moments of inertia of bodies of revolution about geometric axes. (Russian. English, Russian and Ukrainian summaries)
Blajer, Wojciech A geometric unification of constrained system dynamics. (English summary) **99e:70026**
van Campen, D. H. *see* **Etman, L. F. P.; et al.**
Eich-Soellner, Edda (*with* Führer, Claus) ★ Numerical methods in multibody dynamics. (English summary) **99i:70012**
El Ouatouati, A. (*with* Fisette, P.; Johnson, D. A.) A fully symbolic model of multibody systems containing flexible plates. (English summary)
Etman, L. F. P. (*with* van Campen, D. H.; Schoofs, A. J. G.) Design optimization of multibody systems by sequential approximation. (English summary)
Fisette, P. *see* **El Ouatouati, A.; et al.**
Führer, Claus *see* **Eich-Soellner, Edda, 99i:70012**
Johnson, D. A. *see* **El Ouatouati, A.; et al.**
Junkins, John L. (*with* Schaub, Hanspeter) An instantaneous eigenstructure quasivelocity formulation for nonlinear multibody dynamics. (English summary) **99a:70014**
Klisch, Thomas Contact mechanics in multibody systems. (English summary) **99h:70017**
Petzold, Linda R. *see* **Yen, Jeng; et al., 99c:70012**
Radchenko, I. F. *see* **Bakan, G. M.**
Raha, Soumyendu *see* **Yen, Jeng; et al., 99c:70012**
Schaub, Hanspeter *see* **Junkins, John L., 99a:70014**
Schoofs, A. J. G. *see* **Etman, L. F. P.; et al.**
Shamolin, M. V. An introduction to the problem of the braking of a body in a resisting medium, and a new two-parameter family of phase portraits. (Russian. Russian summary) **99e:70027**
Stewart, David E. Rigid body dynamics and measure differential inclusions. (English summary) **99j:70011**
Tsaĭ, Titszin A strapdown inertial navigational system based on a canonical gravitational gradiometer. (Russian. Russian summary)
Yen, Jeng (*with* Petzold, Linda R.; Raha, Soumyendu) A time integration algorithm for flexible mechanism dynamics: the DAE α-method. (English summary) **99c:70012**

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Arakelian, Viguen Équilibrage dynamique complet des mécanismes. (English and French summaries) [Full dynamic balancing of mechanisms] **99g:70004**
Bock, Hans Georg *see* **Steinbach, Marc C.; et al., 99c:70003**
Boretskiĭ, I. F. (*with* Kayumov, O. R.) Globally controllable systems of rigid bodies. (Russian. Russian summary) **99m:70019**
Bruneau, O. *see* **Ouezdou, F. B.; et al., 99h:70006**
Coutinho, F. A. B. *see* **Lopez, Luis Fernandez**
Fisette, P. (*with* Péterkenne, J. M.) Contribution to parallel and vector computation in multibody dynamics. (English summary)
Friedlander, Susan J. *see* **Lyashenko, Andrei A., 99f:76060**
Greenspan, Donald Conservative motion of a discrete, hexahedral gyroscope. (English summary)
Guinot, J. C. *see* **Ouezdou, F. B.; et al., 99h:70006**
Kayumov, O. R. *see* **Boretskiĭ, I. F., 99m:70019**
Kharlamov, Pavel V. (*with* Kovalev, A. M.) Invariant relations method in multibody dynamics. (*see* **98h:00034**)
Klepp, Horst J. On the kinetic state of a system with friction considering the material properties of several members. (English and German summaries) **99h:70031**
Kostin, Georgii V. *see* **Steinbach, Marc C.; et al., 99c:70003**
Kostyuchenko, A. G. (*with* Shkalikov, A. A.; Yurkin, M. Yu.) On the stability of a top with a cavity filled with viscous fluid. (Russian. Russian summary) **99f:34086**
Kovalev, A. M. *see* **Kharlamov, Pavel V., (98h:00034)**
Lesser, Martin ★ The analysis of complex nonlinear mechanical systems. (English summary) **99a:70020**
Longman, Richard W. *see* **Steinbach, Marc C.; et al., 99c:70003**
Lopez, Luis Fernandez (*with* Coutinho, F. A. B.) Erratum: "Motion of articulated bodies: an application of gauge invariance in classical Lagrangian mechanics" [Amer. J. Phys. **65** (1997), no. 6, 528–536; MR 98i:70015].
Lukovskiĭ, I. A. On the theory of nonlinear oscillations of a bounded volume of low-viscosity fluid. (Ukrainian. English summary) **99k:76018**
Lyashenko, Andrei A. (*with* Friedlander, Susan J.) Nonlinear instability of a precessing body with a cavity filled by an ideal fluid. (English summary) **99f:76060**
Orekhov, V. I. Dual parametrization of the bifurcation set of a mechanical system with quadratic integrals. (Russian. Russian summary) **99h:70025**
Ouezdou, F. B. (*with* Bruneau, O.; Guinot, J. C.) Dynamic analysis tool for legged robots. (English summary) **99h:70006**
Péterkenne, J. M. *see* **Fisette, P.**
Pfister, F. Bernoulli numbers and rotational kinematics. (English summary) **99i:70004**
Pogorelov, D. Differential-algebraic equations in multibody system modeling. (English summary) **99j:70003**
Qi, Zhao Hui (*with* Tang, Li Min) Conformal parameters for finite rotational tensors and their application in multibody systems. (Chinese. English and Chinese summaries)
Shkalikov, A. A. *see* **Kostyuchenko, A. G.; et al., 99f:34086**
Simeon, B. Order reduction of stiff solvers at elastic multibody systems. (English summary) **99g:70003**
Steinbach, Marc C. (*with* Bock, Hans Georg; Kostin, Georgii V.; Longman, Richard W.) Mathematical optimization in robotics: towards automated high-speed motion planning. (English summary) **99c:70003**
Tang, Li Min *see* **Qi, Zhao Hui**
Valášek, M. *see* **Znamenáček, J., 99g:73077**
Yurkin, M. Yu. *see* **Kostyuchenko, A. G.; et al., 99f:34086**
Znamenáček, J. (*with* Valášek, M.) An efficient implementation of the recursive approach to flexible multibody dynamics. (English summary) **99g:73077**

70Fxx Dynamics of a system of particles, including celestial mechanics

Items with secondary classifications in 70Fxx

José, Jorge V. (*with* Saletan, Eugene J.) ★ Classical dynamics. (English summary) **99g:70001**
Layton, Richard A. ★ Principles of analytical system dynamics. (English summary) **99i:70001**
McCauley, Joseph L. ★ Classical mechanics. (English summary) **99j:70001**
Saletan, Eugene J. *see* **José, Jorge V., 99g:70001**

70F05 Two-body problem

Aceves de la Cruz, F. *see* **Torres del Castillo, G. F., 99j:70012**
Aparicio, Ignacio (*with* Floría Gimeno, Luis) A BF-regularization of a nonstationary two-body problem under the Maneff perturbing potential. **99d:70015**
Chernikov, N. A. ★ Фигура, описываемая вектором скорости планеты, в задаче Кеплера. (Russian. English and Russian summaries) [A figure described by the velocity vector of a planet in the Kepler problem]
Diacu, Florin (*with* Şelaru, Dan) Chaos in the Gyldén problem. (English summary) **99i:70013**
Floría Gimeno, Luis *see* **Aparicio, Ignacio, 99d:70015**
Goździewski, Krzysztof (*with* Maciejewski, Andrzej J.) Nonlinear stability of the Lagrangian libration points in the Chermnykh problem. (English summary) **99i:70014**
Huang, Tian Yi *see* **Yue, Jin Hai**
Maciejewski, Andrzej J. *see* **Goździewski, Krzysztof, 99i:70014**
Mychelkin, T. È. (*with* Simakova, T. B.) On the Bertrand-Kepler problem. II. Stability, classification and equivalence of Bertrand's laws of motion. (Russian. English, Russian and Kazakh summaries) **99k:70008**
Nardone, Pascal Regularization of the three-dimensional gravitational potential. (English summary) **99c:70013**
Omarov, T. B. (*with* Omarova, G. T.) The inverse problem of dynamics for systems with non-stationary Lagrangian. (English summary) **99e:70028**
Omarova, G. T. *see* **Omarov, T. B., 99e:70028**
Schieve, W. C. *see* **Trump, M. A., 99k:70009**
Şelaru, Dan *see* **Diacu, Florin, 99i:70013**
Shchepetilov, A. V. Reduction of the two-body problem with central interaction on simply connected spaces of constant sectional curvature. (English summary) **99f:70018**
— Corrigendum: "Reduction of the two-body problem with central interaction on simply connected spaces of constant sectional curvature" [J. Phys. A **31** (1998), no. 29, 6279–6291; MR 99f:70018].
Simakova, T. B. *see* **Mychelkin, T. È., 99k:70008**
Stump, Daniel R. A solvable non-central perturbation of the Kepler problem. (English summary) **99c:70014**
Teleman, Kostake Relativistic eccentric anomalies. (English summary) **99i:70015**
Torres del Castillo, G. F. On the connection between the Kepler problem and the isotropic harmonic oscillator in classical mechanics. (English and Spanish summaries) **99d:70016**
— (*with* Aceves de la Cruz, F.) Connection between the Kepler problem and the Maxwell fish-eye. (English and Spanish summaries) **99j:70012**
— Symmetry of the Kepler problem in classical mechanics. (English and Spanish summaries)
Trump, M. A. (*with* Schieve, W. C.) Perihelion precession in the special relativistic two-body problem. (English summary) **99k:70009**
Vivarelli, Maria Dina A configuration counterpart of the Kepler problem hodograph. (English summary) **99a:70015**
— The Kepler problem S-sphere and the Kepler manifold. (English and Italian summaries) **99k:70010**
Yannopoulos, Th. G. The photogravitational two-body problem in a resisting medium. (*see* **99m:00024**)
Yue, Jin Hai (*with* Huang, Tian Yi) Nonlinear phenomena in solving Kepler's equation in the case of elliptic orbits. (Chinese. English and Chinese summaries)

Items with secondary classifications in 70F05

Amar, Makhlouf (*with* Tounsi, Bahloul) Study of the Ince equation. (English summary) **99g:34002**
Beletskiĭ, V. V. (*with* Pankova, D. V.) Connected bodies in the orbit as dynamic billiard. (English summary) **99f:70034**
Bogush, A. A. (*with* Kurochkin, Yu. A.; Otchik, V. S.) Algebra of conserved operators for the Kepler-Coulomb problem in spaces of constant curvature. (English summary) **99i:81027**
Brackenridge, J. Bruce ★ The key to Newton's dynamics. (English summary) **99j:01006**
Calvario Acócal, J. L. *see* **Torres del Castillo, G. F., 99e:81069**
Govinder, K. S. (*with* Heil, T. G.; Uzer, T.) Approximate Noether symmetries. (English summary) **99a:70027**
Heil, T. G. *see* **Govinder, K. S.; et al., 99a:70027**
Kaplan, Samuel R. The collinear one-bumper, two-body problem with unequal masses. (English summary) **99c:70016**
Kechichian, Jean Albert Motion in general elliptic orbit with respect to a dragging and precessing coordinate frame. (English summary) **99h:70035**
Kurochkin, Yu. A. *see* **Bogush, A. A.; et al., 99i:81027**

Leimkuhler, Benedict Reversible adaptive regularization methods for atomic N-body problems in applied fields. (English summary) **99h:70003**
López Ortega, A. *see* **Torres del Castillo, G. F., 99m:81050**
López Tascón, Carlos ★ Mecánica newtoniana. (Spanish) [Newtonian mechanics] **99h:70001**
Mesón, Alejandro M. (*with* Vericat, Fernando) Geodesic flow on an hyperboloid model and the two-body motion under repulsive Coulomb forces. (English summary) **99d:78024**
Otchik, V. S. *see* **Bogush, A. A.; et al., 99i:81027**
Otelbaev, M. O. A mathematical result on the law of conservation of momentum. II. (Russian. English, Russian and Kazakh summaries) **99i:83005**
Pankova, D. V. *see* **Beletskiĭ, V. V., 99f:70034**
(Rossi, Mary Ann) *see* **Brackenridge, J. Bruce, 99j:01006**
Serafin, Richard A. Bounds on the solution to Kepler's equation. II. Universal and optimal starting points. (English summary) **99h:70020**
Sharma, Ram Krishan Contraction of high eccentricity satellite orbits using K-S elements with air drag. (English summary) **99d:70040**
Torres del Castillo, G. F. (*with* Calvario Acócal, J. L.) On the dynamical symmetry of the quantum Kepler problem. (English and Spanish summaries) **99e:81069**
— (*with* López Ortega, A.) The three-dimensional Kepler problem and the four-dimensional isotropic harmonic oscillator. (English and Spanish summaries) **99m:81050**
Tounsi, Bahloul *see* **Amar, Makhlouf, 99g:34002**
Uzer, T. *see* **Govinder, K. S.; et al., 99a:70027**
Vericat, Fernando *see* **Mesón, Alejandro M., 99d:78024**
Wu, Zuo-Bing (*with* Zeng, Jin Yan) Extension of Bertrand's theorem and factorization of the radial Schrödinger equation. (English summary) **99g:81040**
Zeng, Jin Yan *see* **Wu, Zuo-Bing, 99g:81040**

70F07 Three-body problem

Bai, Zai-Qiao (*with* Gu, Yan; Yuan, Jian-Min) Classical dynamics of collinear e^-Ze^- Coulomb three-body systems. (English summary) **99c:70015**
Bhatnagar, K. B. (*with* Hallan, P. P.) Existence and stability of $L_{4,5}$ in the relativistic restricted three-body problem. (English summary) **99e:70029**
— *see also* **Khanna, Mona, 99j:70013**
Chernin, A. D. (*with* Valtonen, Mauri J.) Intermittent chaos in three-body dynamics. (English summary) **99f:70019**
Chesley, S. *see* **Zare, K., 99e:70033**
Cobos, Jordi (*with* Simó, Carles) Reduction of the central manifold around a collinear equilibrium point of the restricted three-body problem. (Spanish) (*see* **99d:00018**)
Dragnev, Dragomir On the isoenergetical non-degeneracy of the problem of two centers of gravitation. (English summary) (*see* **99d:00016**)
Èlerdashvili, É. Sh. On a restricted plane three-body problem. (Russian. English and Georgian summaries)
Elmabsout, Badaoui *see* **Fanny, Cosson, 99e:70030**
Fanny, Cosson (*with* Elmabsout, Badaoui) Relative equilibrium in the three-body problem with a rigid body. (English and French summaries) **99e:70030**
Garain, D. N. (*with* Srivastava, Ajay Kumar) Effect of perturbations in Coriolis and centrifugal forces on the first order normalization in the new kind restricted problem of three bodies. (English summary)
Gu, Yan *see* **Bai, Zai-Qiao; et al., 99c:70015**
Hallan, P. P. *see* **Bhatnagar, K. B., 99e:70029**
Hénon, Michel ★ Generating families in the restricted three-body problem. (English summary) **99e:70031**
Jorba, Àngel (*with* Villanueva, Jordi) Numerical computation of normal forms around some periodic orbits of the restricted three-body problem. (English summary) **99g:70017**
Kaplan, Samuel R. The collinear one-bumper, two-body problem with unequal masses. (English summary) **99c:70016**
Khanna, Mona (*with* Bhatnagar, K. B.) Existence and stability of libration points in the restricted three body problem when the smaller primary is a triaxial rigid body. (English summary) **99j:70013**
Liao, Xinhao (*with* Saari, Donald G.; Xia, Zhihong) Instability and diffusion in the elliptic restricted three-body problem. (English summary) **99m:70007**
McCord, Christopher K. Bifurcations of the Hill's region in the three body problem. (English summary) **99j:70014**
Meyer, Kenneth R. Continuation of periodic solutions in three dimensions. (English summary) **99j:70015**
Pérez Chavela, Ernesto (*with* Vela-Arévalo, Luz Vianey) Triple collision in the quasi-homogeneous collinear three-body problem. (English summary) **99f:70020**
Saari, Donald G. *see* **Liao, Xinhao; et al., 99m:70007**
Sal'nikova, T. V. On periodic solutions of the three-dimensional restricted three-body problem. (Russian. Russian summary) **99e:70032**
Sbano, L. The topology of the planar three-body problem with zero total angular momentum and the existence of periodic orbits. (English summary) **99h:70018**
Shinkin, Vladimir N. The integrable cases of the general and restricted elliptic spatial three-body problems at both third-order orbital and secondary resonances under the oblateness of the central body. (English summary) **99a:70016**
Simó, Carles *see* **Cobos, Jordi, (99d:00018)**
Srivastava, Ajay Kumar *see* **Garain, D. N.**
Tanikawa, Kiyotaka (*with* Umehara, Hiroaki) Oscillatory orbits in the planar three-body problem with equal masses. (English summary) **99g:70018**
Umehara, Hiroaki *see* **Tanikawa, Kiyotaka, 99g:70018**
Valtonen, Mauri J. *see* **Chernin, A. D., 99f:70019**
Vela-Arévalo, Luz Vianey *see* **Pérez Chavela, Ernesto, 99f:70020**
Villanueva, Jordi *see* **Jorba, Àngel, 99g:70017**
Xia, Zhihong *see* **Liao, Xinhao; et al., 99m:70007**
Yuan, Jian-Min *see* **Bai, Zai-Qiao; et al., 99c:70015**
Zare, K. (*with* Chesley, S.) Order and chaos in the planar isosceles three-body problem. (English summary) **99e:70033**

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Boccaletti, D. (*with* Di Bari, M.; Cipriani, P.; Pucacco, G.) Finsler geometry in classical mechanics and in Bianchi cosmological models. (English summary) **99c:53015**
Cipriani, P. *see* **Boccaletti, D.; et al., 99c:53015**
Di Bari, M. *see* **Boccaletti, D.; et al., 99c:53015**
Gerasimov, I. A. (*with* Mushailov, B. R.) On the existence of objects in the Kuiper belt that are connected by orbital resonances with Neptune. (Russian. Russian summary)
Giorgilli, Antonio On the problem of stability for near to integrable Hamiltonian systems. (English summary) **99h:58098**
Lin, Florence J. Symplectic reduction, geometric phase, and internal dynamics in three-body molecular dynamics. (English summary) **99h:70024**
Meyer, Kenneth R. The evolution of the stable and unstable manifold of an equilibrium point. (English summary) **99i:70021**
Mushailov, B. R. *see* **Gerasimov, I. A.**
Pucacco, G. *see* **Boccaletti, D.; et al., 99c:53015**
Romanenko, V. A. A remark on a problem in celestial mechanics. (Russian. English and Russian summaries) **99f:70022**
Scheeres, D. J. The restricted Hill four-body problem with applications to the Earth-Moon-Sun system. (English summary) **99h:70019**
Tkhaĭ, V. N. Fixed sets and symmetric periodic motions of reversible mechanical systems. (Russian. Russian summary) **99c:34088**
Zhang, Shi Qing Multiple closed orbits for N-body-type problems. (English summary) **99i:58126**

70F10 n-body problem

Beaugé, C. On the effect of short-period terms in resonance trapping. (English summary) **99a:70017**
Calogero, F. Three solvable many-body problems in the plane. (English summary) **99a:70018**
— Integrable and solvable many-body problems in the plane via complexification. (English summary) **99f:70021**
— A solvable many-body problem in the plane. (English summary) **99d:70017**
Chenciner, Alain À l'infini en temps fini. (French summary) [To infinity in finite time] **99d:70018**
Dell'Antonio, Gianfausto Non-collision periodic solutions of the N-body system. (English summary) **99c:70017**
Jorba, Àngel (*with* Villanueva, Jordi) Existence of quasiperiodic solutions for a restricted four-body problem. (Spanish) (*see* **99g:00036**)
Khare, Avinash (*with* Sukhatme, Uday P.) Exact solution of a class of three-body scattering problems in one dimension. (English summary) **99b:70008**
Kuz'minykh, V. A. On the global regularization of orbits of relative motion in a variant of the n-body problem. (Russian. Russian summary) **99b:70009**
Montgomery, Richard The N-body problem, the braid group, and action-minimizing periodic solutions. (English summary) **99a:70019**
Pascual, Felino G. On periodic perturbations of uniform motion of Maxwell's planetary ring. (English summary) **99c:70018**
Sukhatme, Uday P. *see* **Khare, Avinash, 99b:70008**
Villanueva, Jordi *see* **Jorba, Àngel, (99g:00036)**

Items with secondary classifications in 70F10

Alba, David (*with* Lusanna, Luca) The Liénard-Wiechert potential of charged scalar particles and their relation to scalar electrodynamics in the rest-frame instant form. (English summary) **99h:78015**
Antoni, Mickaël (*with* Elskens, Yves; Escande, Dominique F.) Explicit reduction of N-body dynamics to self-consistent particle-wave interaction. (English summary) **99a:82092**
Bobylëv, A. V. *see* **Illner, R.; et al., 99i:85001**
Braden, H. W. (*with* Bukhshtaber, V. M.) The general analytic solution of a functional equation of addition type. (English summary) **99h:39027**
Bukhshtaber, V. M. *see* **Braden, H. W., 99h:39027**
Burago, D. Yu. (*with* Ferleger, S.; Kononenko, Alexey Vladimir) Uniform estimates on the number of collisions in semi-dispersing billiards. **99f:58120**
Capuzzo-Dolcetta, R. (*with* Miocchi, P.) A comparison between the fast multipole algorithm and the tree-code to evaluate gravitational forces in 3-D. (English summary) **99c:70001**
Carbonaro, Bruno (*with* Starita, Giulio) The principle of virtual velocities. **99g:70002**
— *see also* **Errata: "The principle of virtual velocities", (99m:35005)**
Chiang, Tzuu-Shuh (*with* Chow, Yunshyong) Asymptotic behavior of some linear differential systems. **99k:34099**
Chow, Yunshyong *see* **Chiang, Tzuu-Shuh, 99k:34099**
(Diacu, Florin) *see* **Parker, Matthew W.**
Dukes, Peter *see* **Illner, R.; et al., 99i:85001**
Elskens, Yves *see* **Antoni, Mickaël; et al., 99a:82092**
Escande, Dominique F. *see* **Antoni, Mickaël; et al., 99a:82092**
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Fusco, Giorgio (*with* Oliva, Waldyr Muniz) Asymptotic behaviour of a system of repelling particles: asymptotic velocities, phases, scattering operators and integrability. (English summary) **99j:34066**
Gesztesy, Fritz (*with* Renger, W.) New classes of Toda soliton solutions. (English summary) **99f:58097**
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Leimkuhler, Benedict Reversible adaptive regularization methods for atomic N-body problems in applied fields. (English summary) **99h:70003**
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Parker, Matthew W. Did Poincaré really discover chaos? Essay review of *Celestial encounters* [Princeton Univ. Press, Princeton, 1996; MR 98e:70006] by F. Diacu and P. Holmes.
Pitanga, Paulo (*with* Rodrigues, Paulo R.) The projector method for regular Poisson manifolds. (English summary) **99d:58069**
Plakhov, A. Yu. (*with* Stëpin, A. M.) Scattering and Coxeter groups. (Russian) **99k:58147**
Rañada, Manuel F. Lax formalism for a family of integrable Calogero-Moser related n-particle systems. (English summary) **99b:58124**
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Schmidt, Jan Hendrik Predicting the motion of particles in Newtonian mechanics and special relativity. (English summary) **99e:70005**
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Wojtkowski, Maciej P. Hamiltonian systems with linear potential and elastic constraints. (English summary) **99e:58081**
Xue, Guo Liang A cost optimal parallel algorithm for computing force field in n-body simulations. (English summary) (*see* **99k:68008**)
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"The principle of virtual velocities" An integration to: "The principle of virtual velocities" [in *Classical problems in mechanics*, 1–95, Aracne, Rome, 1997; MR 99g:70002] by B. Carbonaro and G. Starita. (*see* **99m:35005**)

70F15 Celestial mechanics

Baccili, S. *see* **Milani, Andrea**
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Camarena, V. (*with* López Lacasta, Carlos) Transfer orbits: geometry and graph representations. (Spanish. Spanish summary) (*see* **99d:00018**)
Ciotti, L. (*with* Giampieri, G.) Motion of a rigid body in a tidal field: an application to elliptical galaxies in clusters. (English summary) **99b:70010**
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— *see also* **Vinnikov, E. L.; et al., 99b:70012**
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Grau, Miquel Dynamics of asteroids near the 4:1 resonance. (Spanish. English summary) (*see* **99g:00036**)
Gronchi, G. F. (*with* Milani, Andrea) Averaging on Earth-crossing orbits. (English summary) **99j:70016**
Grossman, Nathaniel Newton's quiescence of the apsides and radially-symmetric attractions to a center. **99d:70019**
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Métris, Gilles (*with* Xu, Jin; Wytrzyszczak, Iwona) Derivatives of the gravity potential with respect to rectangular coordinates. (English summary) **99j:70017**
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— (*with* Baccili, S.) Dynamics of earth-crossing asteroids: the protected Toro orbits. (English summary)
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— An averaging method to study the motion of lunar artificial satellites. II. Averaging and applications. (English summary) **99b:70011b**
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Aparicio, Ignacio (*with* Floría Gimeno, Luis) On the performance of the Deprit's linearizing D-transformation. (*see* **99d:00018**)
Barashenkov, V. S. Mechanics in six-dimensional spacetime. (English summary) **99i:70023**
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Bruno, Alexander D. Power geometry. (English summary) **99h:34060**
Cano, B. Numerical integration of periodic orbits using multistep methods. (Spanish) (*see* **99d:00018**)
Chen, Li Qun (*with* Liu, Yan Zhu) Chaotic attitude motion of a nonspinning spacecraft and its parametric open-plus-closed loop control. (Chinese. English and Chinese summaries) **99h:70034**
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Ferrer, S. (*with* Lara, Martín; Palacián, J.; San Juan, J. F.; Viartola, A.; Yanguas, P.) The Hénon and Heiles problem in three dimensions. I. Periodic orbits near the origin. (English summary) **99k:58155a**
— (*with* Lara, Martín; Palacián, J.; San Juan, J. F.; Viartola, A.; Yanguas, P.) The Hénon and Heiles problem in three dimensions. II. Relative equilibria and bifurcations in the reduced system. (English summary) **99k:58155b**
Floría Gimeno, Luis *see* **Aparicio, Ignacio, (99d:00018)**
Goździewski, Krzysztof (*with* Maciejewski, Andrzej J.) Nonlinear stability of the Lagrangian libration points in the Chermnykh problem. (English summary) **99i:70014**
Hadjidemetriou, John D. Symplectic maps and their use in celestial mechanics. (English summary) **99m:70011**
Hénon, Michel ★ Generating families in the restricted three-body problem. (English summary) **99e:70031**
— (*with* Petit, Jean-Marc) Good rotations. (English summary) **99f:70003**
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Melendo, Begoña (*with* Palacios, Manuel) Multirevolution algorithms for the long-term integration of quasiperiodic problems. (Spanish) (*see* **99d:00018**)
Mikkola, Seppo Non-canonical perturbations in symplectic integration. (English summary) **99a:70004**
Moser, Jürgen K. Dynamical systems—past and present. **99m:58003**
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Ollé, Mercé (*with* Pacha, Juan R.) Motion near the transition to complex instability: some examples. (English summary) (*see* **99d:00018**)
Omarov, T. B. (*with* Omarova, G. T.) The inverse problem of dynamics for systems with non-stationary Lagrangian. (English summary) **99e:70028**
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Pascual, Felino G. On periodic perturbations of uniform motion of Maxwell's planetary ring. (English summary) **99c:70018**
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Shinkin, Vladimir N. The integrable cases of the general and restricted elliptic spatial three-body problems at both third-order orbital and secondary resonances under the oblateness of the central body. (English summary) **99a:70016**
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— *see also* **Liu, Rongwan; et al., 99k:70013**
Kažić, Mila Kinematics of the particles subjected to rheonomic constraints. (English and Serbian summaries) **99g:70019**
Lesser, Martin ★ The analysis of complex nonlinear mechanical systems. (English summary) **99a:70020**
Liu, Rongwan (*with* Fu, Jingli; Mei, Feng Xiang) Lie symmetries and conserved quantities of systems of relative motion dynamics. (English and Chinese summaries) **99k:70013**
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Matrosov, V. M. (*with* Finogenko, I. A.) On attraction for autonomous mechanical systems with sliding friction. (Russian. Russian summary) **99d:70020**
Mei, Feng Xiang Lie symmetries and conserved quantities of holonomic systems with remainder coordinates. (English and Chinese summaries) **99i:70016**
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Rumyantsev, V. V. General equations of analytical dynamics. (Russian. Russian summary) **99b:70013**
Schay, Geza A new formulation of the equations of dynamics. (English summary) **99c:70020**
Zhang, Yi[7] (*with* Mei, Feng Xiang) Algebraic structure of the dynamical equations of holonomic mechanical system in relative motion. (English and Chinese summaries) **99e:70035**
— (*with* Mei, Feng Xiang) Differential variational principles and equations of motion of mechanical systems with unilateral constraints. (English and Chinese summaries) **99e:70036**

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Blajer, Wojciech A geometric unification of constrained system dynamics. (English summary) **99e:70026**
Bornemann, Folkmar A. (*with* Schütte, Christof) Homogenization of Hamiltonian systems with a strong constraining potential. (English summary) **99a:70025**
— (*with* Schütte, Christof) A mathematical investigation of the Car-Parrinello method. (English summary) **99d:81183**
Bossi, M. Chiara (*with* Vitillaro, Enzo) Asymptotic stability for damped strongly non-autonomous systems with applications to holonomic mechanical systems and nonlinear networks. (English summary) **99d:34084**
Božić, Mirjana *see* **Marić, Zvonko; et al., 99h:70013**
Hamdouni, Aziz (*with* Taibi, Noureddine) Kane's formalism and Lie group theory. **99f:70017**
Luo, Shao Kai The theory of relativistic analytical mechanics of the rotational systems. (Chinese. English and Chinese summaries) **99c:70027**
Marić, Zvonko (*with* Arsenović, D.; Božić, Mirjana) Magnetic top in terms of spinors—the classical system with constraints. (English summary) **99h:70013**
Marigo, Alessia (*with* Bicchi, Antonio) Rolling bodies with regular surface: the holonomic case. (English summary) **99g:70016**
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Pal, Arpad *see* **Anisiu, Mira-Cristiana, 99m:70001**
Rumyantsev, V. V. On the Poincaré and Chetaev equations. (Russian. Russian summary) **99m:70006**
Schütte, Christof *see* **Bornemann, Folkmar A., 99a:70025** *and* **99d:81183**
Sosnits'kiĭ, S. P. On the instability of conservative systems with gyroscopic forces. (Ukrainian. English and Ukrainian summaries) **99k:34114**
Taibi, Noureddine *see* **Hamdouni, Aziz, 99f:70017**
Vitillaro, Enzo *see* **Bossi, M. Chiara, 99d:34084**
Wendlandt, Jeffrey M. (*with* Marsden, Jerrold E.) Mechanical integrators derived from a discrete variational principle. (English summary) **99d:70004**

70F25 Nonholonomic systems

Arnold, Martin (*with* Frischmuth, Kurt) Solving problems with unilateral constraints by DAE methods. (English summary) **99c:70021**
Benenti, Sergio Geometrical aspects of the dynamics of non-holonomic systems. (English summary) **99g:70020**
Chen, Xiang Wei (*with* Luo, Shao Kai) Integration method for the dynamics equation of relative motion of variable mass nonlinear nonholonomic system. (Chinese. English and Chinese summaries) **99h:70022**
Cushman, Richard (*with* Kemppainen, D.; Śniatycki, Jędrzej) A classical particle with spin realized by reduction of a nonlinear nonholonomic constraint. (English summary) **99e:70037**
Djerassi, Shlomo Linear momentum, angular momentum and analytical mechanics. (English summary) **99e:70038**
Favretti, Marco Equivalence of dynamics for nonholonomic systems with transverse constraints. (English summary) **99k:70014**
Fernández Chapou, J. Luis The motion of a sphere on a surface of revolution: a geometric approach. (English summary) **99i:70017**
Foote, Robert L. Geometry of the Prytz planimeter. (English summary) **99k:70015**
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He, Shi Ben *see* **Li, Gang Chang, 99e:70039**
Ibort, Luis Alberto (*with* de León, Manuel; Marmo, Giuseppe; Martín de Diego, David) Non-holonomic constrained systems as implicit differential equations. (English summary) **99g:70021**
— (*with* de León, Manuel; Marrero, Juan Carlos; Martín de Diego, David) A Dirac bracket for non-holonomic Lagrangian systems. (English summary) **99j:70018**
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Li, Gang Chang (*with* He, Shi Ben) Lagrange's theorem for a class of nonholonomic systems and its application. (Chinese. English and Chinese summaries) **99e:70039**
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Mei, Feng Xiang (*with* Wu, Run Heng; Zhang, Yong Fa) Lie symmetries and conserved quantities of nonholonomic systems of non-Chetaev type. (Chinese. English and Chinese summaries) **99k:70016**
— Algebraic structure and Poisson theory for equations of motion of nonholonomic systems. (Russian. Russian summary) **99e:70041**
— *see also* **Wu, Run Heng, 99a:70023**
Qiu, Rong The fundamental equations of dynamics using representation of quasi-coordinates in the space of non-linear non-holonomic constraints. (Chinese. English and Chinese summaries) **99e:70042**
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Udwadia, F. E. (*with* Kalaba, R. E.) The explicit Gibbs-Appell equation and generalized inverse forms. (English summary) **99a:70022**
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Blajer, Wojciech A geometric unification of constrained system dynamics. (English summary) **99e:70026**
Bloch, Anthony M. (*with* Drakunov, S. V.) Discontinuous stabilization of Brockett's canonical driftless system. (English summary) **99h:93082**
Borisov, Adriyan V. (*with* Fedorov, Yu. N.) On two modified integrable problems in dynamics. (Russian) **99e:70019**
— (*with* Tsygvintsev, A. V.) Kovalevskaya's method in the dynamics of a rigid body. (Russian. Russian summary) **99c:70007**
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Burov, A. A. (*with* Chevallier, D. P.) On Routh reduction and its application in rigid body dynamics. (English summary) **99k:70022**
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Dalsmo, Morten (*with* van der Schaft, Arjan) On representations and integrability of mathematical structures in energy-conserving physical systems. (English summary) **99f:93071**
De Luca, Alessandro (*with* Oriolo, Giuseppe; Samson, C.) Feedback control of a nonholonomic car-like robot. **99a:70044**
Deryabin, M. V. General principles of the dynamics and theory of unilateral constraints. (Russian. Russian summary) **99c:70026**
Divelbiss, Adam (*with* Seereeram, Sanjeev; Wen, John T.) Kinematic path planning for robots with holonomic and nonholonomic constraints. (English summary) **99g:70008**
Drakunov, S. V. *see* **Bloch, Anthony M., 99h:93082**
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Glocker, Ch. Displacement potentials in non-smooth dynamics. (English summary) **99i:70011**
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Ibort, Luis Alberto (*with* de León, Manuel; Lacomba, Ernesto A.; Marrero, Juan Carlos; Martín de Diego, David; Pitanga, Paulo) Geometric formulation of mechanical systems subjected to time-dependent one-sided constraints. (English summary) **99d:70021**
Janeczko, S. Hamiltonian geodesics in nonholonomic differential systems. (English summary) **99e:58071**
Jiang, Zhong-Ping (*with* Nijmeijer, Henk) A recursive technique for tracking control of nonholonomic systems in chained form. (English summary) **99k:93068**
Kholmskaya, A. G. On a disk rolling within a sphere. (English and Russian summaries) **99h:70012**
Krener, Arthur J. (*with* Nikitin, S. V.) Generalized isoperimetric problem. (English summary) **99k:49047**
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Lam, S. H. On Lagrangian dynamics and its control formulations. (English summary) **99d:70026**
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Lesser, Martin ★ The analysis of complex nonlinear mechanical systems. (English summary) **99a:70020**
Lewis, Andrew D. Affine connections and distributions with applications to nonholonomic mechanics. (English summary) **99m:53042**
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Luo, Shao Kai The theory of relativistic analytical mechanics of the rotational systems. (Chinese. English and Chinese summaries) **99c:70027**
Mabrouk, Mongi Liaisons unilatérales et chocs élastiques quelconques: un résultat d'existence. (English and French summaries) [Unilateral constraints and arbitrary elastic shocks: an existence result] **99i:70019**
— A unified variational model for the dynamics of perfect unilateral constraints. (English summary) **99j:70019**
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70F30 Impulsive motion

Ibort, Luis Alberto (*with* de León, Manuel; Lacomba, Ernesto A.; Marrero, Juan Carlos; Martín de Diego, David; Pitanga, Paulo) Geometric formulation of mechanical systems subjected to time-dependent one-sided constraints. (English summary) **99d:70021**
Lacomba, Ernesto A. *see* **Ibort, Luis Alberto; et al., 99d:70021**
de León, Manuel *see* **Ibort, Luis Alberto; et al., 99d:70021**
Marrero, Juan Carlos *see* **Ibort, Luis Alberto; et al., 99d:70021**
Martín de Diego, David *see* **Ibort, Luis Alberto; et al., 99d:70021**
Pitanga, Paulo *see* **Ibort, Luis Alberto; et al., 99d:70021**

70F35 Collisions

Cholet, Catherine Collisions d'un point et d'un plan. (English and French summaries) [Collisions of a point and a plane] **99m:70009**
Cipra, B. (*with* Dini, P.; Kennedy, S.; Kolan, A.) Stability of one-dimensional inelastic collision sequences of four balls. (English summary) **99i:70018**
Dini, P. *see* **Cipra, B.; et al., 99i:70018**
Hirschhorn, Michael D. A problem in dynamics.
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Kolan, A. *see* **Cipra, B.; et al., 99i:70018**
Ligan, Etienne Théorèmes d'Euler pour les chocs et percussions sur les systèmes variables: application. [Euler theorems for collisions in variable systems: application] **99e:70043**
Mabrouk, Mongi Liaisons unilatérales et chocs élastiques quelconques: un résultat d'existence. (English and French summaries) [Unilateral constraints and arbitrary elastic shocks: an existence result] **99i:70019**
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Ferleger, S. *see* **Burago, D. Yu.; et al., 99f:58120**
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Luding, S. Collisions & contacts between two particles. (English summary) **99e:73027**
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Pérez Chavela, Ernesto (*with* Vela-Arévalo, Luz Vianey) Triple collision in the quasi-homogeneous collinear three-body problem. (English summary) **99f:70020**
Schatzman, Michelle Uniqueness and continuous dependence on data for one-dimensional impact problems. (English summary) **99i:73065**
Stewart, David E. Rigid body dynamics and measure differential inclusions. (English summary) **99j:70011**
Vela-Arévalo, Luz Vianey *see* **Pérez Chavela, Ernesto, 99f:70020**

70F99 None of the above, but in this section

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Casini, P. *see* **Andreaus, Ugo A.**
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Bonfanti, Giovanna A vanishing viscosity approach to a two degree-of-freedom contact problem in linear elasticity with friction. (English and Italian summaries) **99d:73082**
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Klisch, Thomas Contact mechanics in multibody systems. (English summary) **99h:70017**
Kravchenko, N. N. Geometric analysis of the generalized Jacobi problem. (Russian. Russian summary) **99e:70050**

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Laghdir, M. (*with* Monteiro Marques, Manuel D. P.) Measure-differential inclusions in percussional dynamics. (English summary) **99a:34028**
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Monteiro Marques, Manuel D. P. *see* **Laghdir, M., 99a:34028**
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70Gxx General representations of dynamical systems [see also 58Fxx]

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70G05 Riemannian geometry, tensorial methods [see also 53A45, 53A50, 53B20]

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Hestenes, David Spinor particle mechanics. (English summary) **99d:70010**
Kažić, Mila Kinematics of the particles subjected to rheonomic constraints. (English and Serbian summaries) **99g:70019**
Obădeanu, Virgil (*with* Vernic, C.) Systèmes dynamiques sur des espaces de Riemann. [Dynamical systems on Riemannian spaces] **99b:58099**
Schiesse, P. Einige Bemerkungen zur Kettenregel bei Zeitableitungen isotroper Tensorfunktionen. (English and German summaries) [Some remarks on the chain rule on time derivatives of isotropic tensor functions] **99d:73020**
Shchepetilov, A. V. Reduction of the two-body problem with central interaction on simply connected spaces of constant sectional curvature. (English summary) **99f:70018**
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70G10 Generalized coordinates

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Mei, Feng Xiang (*with* Wu, Run Heng; Zhang, Yong Fa) Lie symmetries and conserved quantities of nonholonomic systems of non-Chetaev type. (Chinese. English and Chinese summaries) **99k:70016**
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70G25 Configuration space

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Lerbet, Jean Analytic geometry and singularities of mechanisms. (English summary) **99g:70010**
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70G35 Phase space

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Bette, A. (*with* Zakrzewski, Stanisław) Extended phase spaces and twistor theory. (English summary) **99c:81072**
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Zakrzewski, Stanisław Localization of relativistic systems. (English summary) **99e:81115**
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70G50 Classical field theories (general)

Julve, J. *see* **de Urries, F. J., 99f:70025**
Mashkour, M. A. Covariant canonical formalism of fields. (English summary) **99e:70044**
Shirzad, A. Gauge symmetry in Lagrangian formulation and Schwinger models. (English summary) **99e:70045**
de Urries, F. J. (*with* Julve, J.) Ostrogradski formalism for higher-derivative scalar field theories. (English summary) **99f:70025**

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Alvarez, Marcos Hamiltonian reduction of non-linear waves. (English summary) **99c:81108**
Banerjee, R. S. On the constrained structure of duality symmetric Maxwell theory. (English summary) **99k:78006**
Bazeia, D. (*with* Nascimento, J. R. S.; Ribeiro, R. F.; Toledo, D.) Soliton stability in systems of two real scalar fields. (English summary) **99b:58073**
Bronnikov, A. A. (*with* Sharipov, R. A.) Axially symmetric dynamical systems accepting the normal shift in $\mathbf{R}^n$. (English summary) **99e:34008**
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Cao, Tian Yu ★ Conceptual developments of 20th century field theories. **99d:81001**
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Gogilidze, S. A. (*with* Pervushin, V. N.; Khvedelidze, A. M.) Reduction in systems with local symmetry. (Russian. English and Russian summaries) **99m:58088**
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Gozzi, E. Universal hidden supersymmetry in classical mechanics and its local extension. (English summary) **99k:81151**
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Julia, B. (*with* Silva, S.) Currents and superpotentials in classical gauge-invariant theories. I. Local results with applications to perfect fluids and general relativity. (English summary) **99h:83004**
Kalinowski, M. W. (*with* Piechocki, W.) Prequantization of field theory. (English summary) **99c:81109**
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Komech, A. I. (*with* Spohn, Herbert) Soliton-like asymptotics for a classical particle interacting with a scalar wave field. **99e:35191**
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Norton, Keith (*with* Jaroszkiewicz, George) Principles of discrete time mechanics. III. Quantum field theory. (English summary) **99m:81275a**
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Yamaleev, Robert New dynamical equations for many particle system on the basis of multicomplex algebra. **99d:70024**
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70G99 None of the above, but in this section

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Alfinito, E. (*with* Causo, M. S.; Profilo, Gabriella; Soliani, Giulio) A class of nonlinear wave equations containing the continuous Toda case. (English summary) **99c:35157**
Banerjee, R. S. (*with* Barcelos-Neto, J.) Reducible systems and embedding procedures in the canonical formalism. (English summary) **99d:58052**
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Hannay, J. H. Cyclic rotations, contractibility and Gauss-Bonnet. (English summary) **99b:53004**
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Pelster, Axel (*with* Kleinert, Hagen) Transformation properties of classical and quantum laws under some nonholonomic spacetime transformations. (English summary) **99j:81095**
Pimentel, B. M. (*with* Teixeira, R. G.; Tomazelli, J. L.) Hamilton-Jacobi approach to Berezinian singular systems. (English summary) **99i:58064**
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Shirzad, A. (*with* Sadeghnezhad, N.) Lagrangian and Hamiltonian constraint structure coefficients. (English summary) **99j:58081**
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70Hxx Hamiltonian and Lagrangian mechanics [see also 58F05]

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de León, Manuel *see* **Ibort, Luis Alberto; et al., 99g:70021**
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McCauley, Joseph L. ★ Classical mechanics. (English summary) **99j:70001**
Metzler, Wolfgang[2] ★ Nichtlineare Dynamik und Chaos. (German) [Nonlinear dynamics and chaos] **99k:58058**
Moser, Jürgen K. Dynamical systems—past and present. **99m:58003**
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70H05 Hamilton's equations

Abenda, Simonetta Global action-angle variables and the characterization of one degree of freedom rational Hamiltonians. (English summary) **99c:70022**
Bazzani, Armando (*with* Beccaceci, Luca) Diffusion in Hamiltonian systems driven by harmonic noise. (English summary) **99c:70023**
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70H25 Hamilton's principle

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70H35 Lagrange's equation of motion

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70Jxx Linear vibration theory [see also 73D30]

70J05 Finite degree of freedom systems

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70J25 Stability

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70J30 Free motions

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70J35 Forced motions

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70J40 Parametric resonances

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70K10 Limit cycles

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Giovannozzi, Massimo Stability domain and invariant manifolds of 2D area-preserving diffeomorphisms. (English summary) **99d:58135**

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— (*with* Thornton-Trump, A. B.; Sepehri, N.) Lyapunov stability control of inverted pendulums with general base point motion. (English summary) 99g:93061
Xi, Ning *see* **Tarn, Tzyh Jong**, 99g:93056
Yang, Jann N. *see* **Agrawal, Anil Kumar**[3]**; et al.**, 99h:93064
Yavin, Y. Stabilization and control of the motion of a rolling disk by using two rotors fixed along its axis. (English summary) 99j:70010
— Stabilization and control of the motion of a rolling disk. (English summary) 99k:93082
Yu, H. (*with* Lloyd, Seth) Combined direct and indirect adaptive control of constrained robots. (English summary)
Zavala-Río, A. (*with* Brogliato, Bernard) On the control of a one degree-of-freedom juggling robot. (English summary) 99j:70009
Zhang, Xiaohang On the controller and observer design of non-redundant linear mechanical systems including actuator dynamics. (English summary)
Zhang, Yuan Liang *see* **Dai, Ying; et al.**
Zheng, Nan Ning *see* **Dai, Ying; et al.**
Zhu, Wen-Hong[2] (*with* Bien, Zeungnam; De Schutter, Joris) Adaptive motion/force control of multiple manipulators with joint flexibility based on virtual decomposition. (English summary) 99b:93037
Zribi, Mohamed (*with* Huang, Loulin) Robust control of multiple robots handling a constrained load. (English summary) 99e:93052
— *see also* **Lum, H. K.; et al.**

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Essays on mathematical robotics ★ Essays on mathematical robotics. 99e:70001
Geometry of feedback and optimal control ★ Geometry of feedback and optimal control. 99b:93001
Minneapolis, MN ★ Essays on mathematical robotics. 99e:70001
Recent developments in robotics ★ Recent developments in robotics. 99b:70004
Workshop:
Robotics ★ Essays on mathematical robotics. 99e:70001

73–XX Mechanics of solids

73–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Items with secondary classifications in 73–00

(Cotta, Renato M.) *see* **Integral transform method in thermal and fluids sciences and engineering**

Items listed otherwise than by author

Integral transform method in thermal and fluids sciences and engineering ★ The integral transform method in thermal and fluids sciences and engineering.
Rio de Janeiro ★ The integral transform method in thermal and fluids sciences and engineering.
Workshop:
Integral Transforms ★ The integral transform method in thermal and fluids sciences and engineering.

73–02 Research exposition (monographs, survey articles)

(Cherepanov, Genady P.) *see* **Fracture, 99j:73001**
Ciarlet, Philippe G. ★ Mathematical elasticity. Vol. II. **99e:73001**

Items listed otherwise than by author

Encyclopedia:
Current knowledge ★ Fracture. **99j:73001**
Fracture ★ Fracture. **99j:73001**

Items with secondary classifications in 73–02

Friedman, Avner ★ Mathematics in industrial problems. Part 8. (English summary) **99c:00008a**
— ★ Mathematics in industrial problems. Part 9. (English summary) **99c:00008b**
Müller, Ingo (*with* Ruggeri, Tommaso) ★ Rational extended thermodynamics. (English summary) **99h:80001**
Ruggeri, Tommaso *see* **Müller, Ingo, 99h:80001**
(Struchtrup, Henning) *see* **Müller, Ingo, 99h:80001**
(Weiss, Wolf) *see* **Müller, Ingo, 99h:80001**

73–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 73–03

de Boer, Reint Theory of porous media—past and present. (English summary) **99d:73016**
Brocato, Maurizio Historical notes and hints for the study of the linear elastic behavior of a system of particles seen as a continuum. (Italian. English and Italian summaries) **99b:73013**
Maravall Casesnoves, Darío The development of mechanics and mathematical physics in the XIXth century. (Spanish) **99k:01025a**
— The development of mechanics and mathematical physics in the XIXth century. II. (Spanish) **99k:01025b**

73–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 73–04

Baerheim, Reidar Classification of symmetry by means of Maxwell multipoles. (English summary) **99a:73007**
Cagnol, John (*with* Marmorat, Jean-Paul) Static equilibrium of hyperelastic thin shell: symbolic and numerical computation. (English summary) **99c:73047**
Marmorat, Jean-Paul *see* **Cagnol, John, 99c:73047**

73–05 Experimental papers

Baumberger, T. *see* **Berthoud, P., 99e:73002**
Berthoud, P. (*with* Baumberger, T.) Shear stiffness of a solid-solid multicontact interface. (English summary) **99e:73002**

73–06 Proceedings, conferences, collections, etc.

(Abousleiman, Y.) *see* **Poroelasticity, 99f:73001**
(Argoul, P.) *see* **Variations of domain and free-boundary problems in solid mechanics, 99k:73004**
(Babuška, Ivo M.) *see* **Conference: Numerical Methods and Computational Mechanics in Science and Engineering, 99b:73001**
(Bergman, L. A.) *see* **Dynamics and control of distributed systems, 99b:73002**
(Biot, Maurice A.) *see* **Poroelasticity, 99f:73001**
(Brebbia, C. A.) *see* **Boundary element research in Europe, 99k:73001**
(Bruhns, Otto Timme) *see* **IUTAM Symposium: Micro- and Macrostructural Aspects of Thermoplasticity**
(Bullard, Jeffrey W.) *see* **Computational and mathematical models of microstructural evolution, 99k:73002**
(Cambou, Bernard) *see* **Behaviour of granular materials, 99g:73001**
(Chen, Long-Qing) *see* **Computational and mathematical models of microstructural evolution, 99k:73002**
(Cheng, A. H.-D.) *see* **Poroelasticity, 99f:73001**
(Clifton, Rodney James) *see* **Proceedings: Symposium on the Dynamic Deformation and Failure Mechanics of Materials, 99g:73003**
(Detournay, E.) *see* **Poroelasticity, 99f:73001**
(Frémond, Michel) *see* **Variations of domain and free-boundary problems in solid mechanics, 99k:73004**
(Golden, Kenneth M.) *see* **Mathematics of multiscale materials, 99c:73001**
(Grimmett, Geoffrey R.) *see* **Mathematics of multiscale materials, 99c:73001**
(Herrmann, H. J.) *see* **Physics of dry granular media, 99e:73003**
(Hovi, J.-P.) *see* **Physics of dry granular media, 99e:73003**
(James, Richard D.) *see* **Mathematics of multiscale materials, 99c:73001**
(Kalia, Rajiv K.) *see* **Computational and mathematical models of microstructural evolution, 99k:73002**
(Ladevèze, Pierre) *see* **Advances in adaptive computational methods in mechanics, 99d:73001**
(Luding, S.) *see* **Physics of dry granular media, 99e:73003**
(Milton, Graeme W.) *see* **Mathematics of multiscale materials, 99c:73001**
(Mróz, Zenon) *see* **Recent advances in structural modelling and optimization, 99k:73003**
(Nguyen Quoc Son) *see* **Variations of domain and free-boundary problems in solid mechanics, 99k:73004**
(Oden, J. Tinsley) *see* **Advances in adaptive computational methods in mechanics, 99d:73001**
(Perzyna, Piotr) *see* **Localization and fracture phenomena in inelastic solids, 99g:73002**
(Rajapakse, R. K. N. D.) *see* **Poroelasticity, 99f:73001**
(Sen, Pabitra N.) *see* **Mathematics of multiscale materials, 99c:73001**
(Shillor, Meir) *see* **Recent advances in contact mechanics, 99e:73004**
(Singh, Rajendra[1]) *see* **Symposium: Emerging Trends in Vibration and Noise Engineering, 99a:73001**
(Sokołowski, Jan) *see* **Recent advances in structural modelling and optimization, 99k:73003**
(Solari, Giovanni) *see* **Nonlinear and random dynamics in wind engineering**
(Stein, Erwin) *see* **IUTAM Symposium: Micro- and Macrostructural Aspects of Thermoplasticity**
(Stoneham, A. Marshall) *see* **Computational and mathematical models of microstructural evolution, 99k:73002**
(Taylor, John E.) *see* **Recent advances in structural modelling and optimization, 99k:73003**
(Tzou, H. S.) *see* **Dynamics and control of distributed systems, 99b:73002**
(Wang, Ren) *see* **IUTAM Symposium: Rheology of Bodies with Defects, 99i:73001**

Items listed otherwise than by author

Advances in adaptive computational methods in mechanics ★ Advances in adaptive computational methods in mechanics. **99d:73001**
Behaviour of granular materials ★ Behaviour of granular materials. **99g:73001**
Beijing ★ IUTAM Symposium on Rheology of Bodies with Defects. **99i:73001**
Birthday:
Clifton, Rodney James ★ Proceedings of a Symposium on the Dynamic Deformation and Failure Mechanics of Materials. **99g:73003**
Mróz, Zenon ★ Recent advances in structural modelling and optimization. **99k:73003**
Bochum ★ IUTAM Symposium on Micro- and Macrostructural Aspects of Thermoplasticity.
Boundary element research in Europe ★ Boundary element research in Europe. **99k:73001**
Cachan ★ Advances in adaptive computational methods in mechanics. **99d:73001**
Cargèse ★ Physics of dry granular media. **99e:73003**
Computational and mathematical models of microstructural evolution ★ Computational and mathematical models of microstructural evolution. **99k:73002**
Conference:
Numerical Methods and Computational Mechanics in Science and Engineering ★ Seventh Conference on Numerical Methods and Computational Mechanics in Science and Engineering (NMCM 96). **99b:73001**
Wind Engineering ★ Nonlinear and random dynamics in wind engineering.
Delhi ★ 1996 India-U.S.A. Symposium on Emerging Trends in Vibration and Noise Engineering. **99a:73001**
Dynamics and control of distributed systems ★ Dynamics and control of distributed systems. **99b:73002**
Festschrift:
Clifton, Rodney James ★ Proceedings of a Symposium on the Dynamic Deformation and Failure Mechanics of Materials. **99g:73003**
Mróz, Zenon ★ Recent advances in structural modelling and optimization. **99k:73003**
Genoa ★ Nonlinear and random dynamics in wind engineering.
IUTAM Symposium:
Micro- and Macrostructural Aspects of Thermoplasticity ★ IUTAM Symposium on Micro- and Macrostructural Aspects of Thermoplasticity.
Rheology of Bodies with Defects ★ IUTAM Symposium on Rheology of Bodies with Defects. **99i:73001**
Variations of Domain and Free-boundary Problems in Solid Mechanics ★ Variations of domain and free-boundary problems in solid mechanics. **99k:73004**
Localization and fracture phenomena in inelastic solids ★ Localization and fracture phenomena in inelastic solids. **99g:73002**
Mathematics of multiscale materials ★ Mathematics of multiscale materials. **99c:73001**
Memorial Issue:
Biot, Maurice Anthony ★ Poroelasticity. **99f:73001**
Minneapolis, MN ★ Mathematics of multiscale materials. **99c:73001**
Miskolc ★ Seventh Conference on Numerical Methods and Computational Mechanics in Science and Engineering (NMCM 96). **99b:73001**
NATO Advanced Study Institute:
Physics of Dry Granular Media ★ Physics of dry granular media. **99e:73003**
Nonlinear and random dynamics in wind engineering ★ Nonlinear and random dynamics in wind engineering.
Paris ★ Variations of domain and free-boundary problems in solid mechanics. **99k:73004**
Pasadena, CA ★ Proceedings of a Symposium on the Dynamic Deformation and Failure Mechanics of Materials. **99g:73003**
Physics of dry granular media ★ Physics of dry granular media. **99e:73003**
Poroelasticity ★ Poroelasticity. **99f:73001**
Proceedings:
Symposium on the Dynamic Deformation and Failure Mechanics of Materials ★ Proceedings of a Symposium on the Dynamic Deformation and Failure Mechanics

Proceedings: (*cont'd.*)
of Materials. **99g:73003**
Recent advances in contact mechanics ★ Recent advances in contact mechanics. **99e:73004**
Recent advances in structural modelling and optimization ★ Recent advances in structural modelling and optimization. **99k:73003**
San Francisco, CA ★ Computational and mathematical models of microstructural evolution. **99k:73002**
School:
Localization and Fracture Phenomena in Inelastic Solids ★ Localization and fracture phenomena in inelastic solids. **99g:73002**
Physics of Dry Granular Media ★ Physics of dry granular media. **99e:73003**
Southampton ★ Boundary element research in Europe. **99k:73001**
Special Issue:
Recent advances in contact mechanics ★ Recent advances in contact mechanics. **99e:73004**
Recent advances in structural modelling and optimization ★ Recent advances in structural modelling and optimization. **99k:73003**
Symposium:
Boundary Element ★ Boundary element research in Europe. **99k:73001**
Computational and Mathematical Models of Microstructural Evolution ★ Computational and mathematical models of microstructural evolution. **99k:73002**
Dynamic Deformation and Failure Mechanics of Materials ★ Proceedings of a Symposium on the Dynamic Deformation and Failure Mechanics of Materials. **99g:73003**
Emerging Trends in Vibration and Noise Engineering ★ 1996 India-U.S.A. Symposium on Emerging Trends in Vibration and Noise Engineering. **99a:73001**
Udine ★ Localization and fracture phenomena in inelastic solids. **99g:73002**
Variations of domain and free-boundary problems in solid mechanics ★ Variations of domain and free-boundary problems in solid mechanics. **99k:73004**
Workshop:
Advances in Adaptive Computational Methods in Mechanics ★ Advances in adaptive computational methods in mechanics. **99d:73001**
Disordered Materials ★ Mathematics of multiscale materials. **99c:73001**
Interface and Thin Films ★ Mathematics of multiscale materials. **99c:73001**
Mechanical Response of Materials from Angstroms to Meters ★ Mathematics of multiscale materials. **99c:73001**
Phase Transformation, Composite Materials and Microstructure ★ Mathematics of multiscale materials. **99c:73001**

Items with secondary classifications in 73–06

(Aliabadi, M. H.) *see* **Boundary elements, 99c:65003**
(Brebbia, C. A.) *see* **Boundary elements, 99c:65003**
(Cheshankov, B. I.) *see* **Applications of mathematics in engineering, 99m:00024**
(Delfour, Michel C.) *see* **Boundaries, interfaces, and transitions, 99a:00021**
(Dulikravich, G. S.) *see* **Inverse problems in engineering mechanics, 99k:80001**
(Florian, Helmut) *see* **Generalized analytic functions, 99d:00020**
(Gilbert, Robert Pertsch) *see* **Generalized analytic functions, 99d:00020**
(Hackl, Klaus) *see* **Generalized analytic functions, 99d:00020**
(Marchetti, Mario) *see* **Boundary elements, 99c:65003**
(Mennicken, R.) *see* **GAMM 97, 99m:00025a; 99m:00025b** *and* **99m:00025c**
(Pfeiffer, Friedrich) *see* **GAMM 97, 99m:00025a; 99m:00025b** *and* **99m:00025c**
(Ramm, Alexander G.) *see* **Inverse problems, tomography, and image processing, 99a:00030**
(Russo, Remigio) *see* **Classical problems in mechanics, 99d:35001**
(Schnitzer, Franz Josef) *see* **Generalized analytic functions, 99d:00020**
(Tanaka, Masataka) *see* **Inverse problems in engineering mechanics, 99k:80001**
(Todorov, M. D.) *see* **Applications of mathematics in engineering, 99m:00024**
(Tutschke, Wolfgang) *see* **Generalized analytic functions, 99d:00020**
(Wendland, Wolfgang L.) *see* **Boundary element topics, 99e:00017**

Items listed otherwise than by author

Applications of mathematics in engineering ★ Applications of mathematics in engineering. **99m:00024**
Banff, AB ★ Boundaries, interfaces, and transitions. **99a:00021**
Boundaries, interfaces, and transitions ★ Boundaries, interfaces, and transitions. **99a:00021**
Boundary element topics ★ Boundary element topics. **99e:00017**
Boundary elements ★ Boundary elements. XIX. **99c:65003**
Calcutta ★ Proceedings of the Seminar on Continuum Mechanics. **99k:00035**
Classical problems in mechanics ★ Classical problems in mechanics. **99d:35001**
Conference:
Boundary Element ★ Boundary elements. XIX. **99c:65003**
Boundary Elements ★ Boundary element topics. **99e:00017**
Generalized Analytic Functions—Theory and Applications to Mechanics ★ Generalized analytic functions. **99d:00020**
Congress:
ISAAC ★ Inverse problems, tomography, and image processing. **99a:00030**
Festschrift:
Gilbert, Robert Pertsch ★ Generalized analytic functions. **99d:00020**
GAMM 97 ★ GAMM 97. **99m:00025a**
— ★ GAMM 97. **99m:00025b**
— ★ GAMM 97. **99m:00025c**
Generalized analytic functions ★ Generalized analytic functions. **99d:00020**
Graz ★ Generalized analytic functions. **99d:00020**
Inverse problems in engineering mechanics ★ Inverse problems in engineering mechanics. **99k:80001**
Inverse problems, tomography, and image processing ★ Inverse problems, tomography, and image processing. **99a:00030**
IUTAM Symposium:
Inverse Problems in Engineering Mechanics ★ Inverse problems in engineering mechanics. **99k:80001**
Meeting:
GAMM ★ GAMM 97. **99m:00025a**
Meeting: (*cont'd.*)
— ★ GAMM 97. **99m:00025b**
— ★ GAMM 97. **99m:00025c**
Nagano ★ Inverse problems in engineering mechanics. **99k:80001**
Newark, DE ★ Inverse problems, tomography, and image processing. **99a:00030**
Proceedings:
Seminar on Continuum Mechanics ★ Proceedings of the Seminar on Continuum Mechanics. **99k:00035**
Regensburg ★ GAMM 97. **99m:00025a**
— ★ GAMM 97. **99m:00025b**
— ★ GAMM 97. **99m:00025c**
Rome ★ Boundary elements. XIX. **99c:65003**
School:
Applications of Mathematics in Engineering ★ Applications of mathematics in engineering. **99m:00024**
Boundaries, Interfaces, and Transitions ★ Boundaries, interfaces, and transitions. **99a:00021**
Seminar:
Continuum Mechanics ★ Proceedings of the Seminar on Continuum Mechanics. **99k:00035**
Session:
Inverse Problems ★ Inverse problems, tomography, and image processing. **99a:00030**
Tomography and Image Processing ★ Inverse problems, tomography, and image processing. **99a:00030**
Sozopol ★ Applications of mathematics in engineering. **99m:00024**
Stuttgart ★ Boundary element topics. **99e:00017**

73A05 Axiomatics, foundations of solid mechanics

Bedeaux, D. *see* **Murdoch, A. I., 99a:73003**
Capriz, G. (*with* Mazzini, Gianluca) Invariance and balance in continuum mechanics. **99e:73005**
Cermelli, Paolo (*with* Fried, Eliot) The influence of inertia on the configurational forces in a deformable solid. (English summary) **99a:73002**
Cowin, Stephen *see* **Jaric, Jovo P., 99g:73004**
Fried, Eliot *see* **Cermelli, Paolo, 99a:73002**
Jaric, Jovo P. (*with* Cowin, Stephen) On the mean rotation in finite deformation. (English and Serbian summaries) **99g:73004**
Mazzini, Gianluca *see* **Capriz, G., 99e:73005**
Murdoch, A. I. (*with* Bedeaux, D.) A microscopic perspective on the physical foundations of continuum mechanics. II. A projection operator approach to the separation of reversible and irreversible contributions to macroscopic behaviour. (English summary) **99a:73003**
Podio-Guidugli, Paolo Inertia and invariance. (English summary) **99m:73001**
Rougée, Paul ★ Mécanique des grandes transformations. (French. French summary) [Mechanics of large deformations] **99k:73005**
Segev, Reuven On symmetrically growing bodies. **99d:73002**

Items with secondary classifications in 73A05

Drašković, Zoran V. A note on the invariant formulation of Gauss' theorem in curvilinear coordinates in Euclidean space. (English and Serbian summaries) **99c:53011**
Germain, Paul Functional concepts in continuum mechanics. (English and Italian summaries) **99j:73003**
Rakotomanana, Lalaonirina R. Contribution à la modélisation géométrique et thermodynamique d'une classe de milieux faiblement continus. [Contribution to the geometric and thermodynamical modelling of a class of weakly continuous media] **99e:73020**

73Bxx Continuum mechanics of solids (constitutive description and properties)

Items with secondary classifications in 73Bxx

Rougée, Paul ★ Mécanique des grandes transformations. (French. French summary) [Mechanics of large deformations] **99k:73005**

73B05 Constitutive equations

Bao, Gang[2] *see* **Smith, G. F., 99a:73004**
Béda, Gyula Investigation of constitutive relations of solids using partial differential equations. (English summary) (*see* **99m:34001**)
Bertram, Albrecht *see* **Svendsen, B., 99k:73008**
Bruhns, Otto Timme *see* **Xiao, Heng; et al., 99b:73003**
de Buhan, Patrick (*with* Chateau, Xavier; Dormieux, Luc) The constitutive equations of finite strain poroelasticity in the light of a micro-macro approach. (English summary) **99k:73006**
Cattani, Carlo (*with* Passarella, Francesca) Nonsimple porous materials with thermal relaxation. (Italian summary) **99d:73003**
Cermelli, Paolo (*with* Sellers, Shaun) On the nonlinear mechanics of Bravais crystals with continuous distributions of defects. (English summary) **99e:73006**
Chateau, Xavier *see* **de Buhan, Patrick; et al., 99k:73006**
Costanzo, Francesco A continuum theory of cohesive zone models: deformation and constitutive equations. (English summary) **99j:73002**
Dormieux, Luc *see* **de Buhan, Patrick; et al., 99k:73006**
Drozdov, Aleksey D. A constitutive model in finite thermoviscoelasticity based on the concept of transient networks. (English summary) **99h:73001**
Germain, Paul Functional concepts in continuum mechanics. (English and Italian summaries) **99j:73003**
Man, Chi-Sing Hartig's law and linear elasticity with initial stress. (English summary) **99d:73004**

Meyers, Albert Thomas Marie *see* **Xiao, Heng; et al., 99b:73003**
Passarella, Francesca *see* **Cattani, Carlo, 99d:73003**
Perzyna, Piotr Constitutive modelling of dissipative solids for localization and fracture. (English summary) **99k:73007**
Pucci, Edvige (*with* Saccomandi, Giuseppe) Universal motions for constrained simple materials. (English summary) **99m:73002**
Rosakis, Phoebus Characterization of convex isotropic functions. (English summary) **99h:73002**
Rudev, A. N. *see* **Zubov, Leonid M., 99a:73006**
Saccomandi, Giuseppe *see* **Pucci, Edvige, 99m:73002**
Sellers, Shaun *see* **Cermelli, Paolo, 99e:73006**
Smith, G. F. (*with* Bao, Gang[2]) Isotropic invariants of traceless symmetric tensors of orders three and four. (English summary) **99a:73004**
Svendsen, B. (*with* Bertram, Albrecht) On frame-indifference and form-invariance in constitutive theory. (English summary) **99k:73008**
Xiao, Heng On constitutive equations of Cauchy elastic solids: all kinds of crystals and quasicrystals. (English summary) **99a:73005**
— (*with* Bruhns, Otto Timme; Meyers, Albert Thomas Marie) Direct relationship between the Lagrangean logarithmic strain and the Lagrangean stretching and the Lagrangean Kirchhoff stress. **99b:73003**
Zubov, Leonid M. (*with* Rudev, A. N.) On the canonical representation of the deviator of a symmetric tensor. (Russian) **99a:73006**

Items with secondary classifications in 73B05

Betten, J. Anwendungen von Tensorfunktionen in der Kontinuumsmechanik anisotroper Materialien. (English and German summaries) [Applications of tensor functions in the continuum mechanics of anisotropic materials] **99f:73018**
Bhattacharyya, A. *see* **Lagoudas, Dimitris C., 99d:73079**
Bruhns, Otto Timme *see* **Xiao, Heng; et al., 99m:73021**
Del Piero, Gianpietro Representation theorems for hemitropic and transversely isotropic tensor functions. (English summary) **99k:73009**
Drew, Donald A. (*with* Mandyam, H.) Effective media theory using nearest neighbor pair distributions. **99i:73004**
E, Weinan Nonlinear continuum theory of smectic-A liquid crystals. **99e:76007**
Ernst, Emil Ellipticity loss in isotropic elasticity. (English summary) **99k:73033**
Ferrari, Mauro[2] *see* **Nadeau, J. C., 99k:73030**
Frémond, Michel (*with* Kuttler, Kenneth L.; Nedjar, Boumediene; Shillor, Meir) One-dimensional models of damage. (English summary) **99k:35172**
Greenberg, James M. Elastic phase transitions: a new model. (English summary) **99h:73009**
Jaric, Jovo P. On the representation of symmetric isotropic 4-tensors. (English summary) **99k:73035**
Kailasam, M. (*with* Ponte Castañeda, P.) A general constitutive theory for linear and nonlinear particulate media with microstructure evolution. (English summary) **99g:73007**
Klyushnikov, V. D. ★ Физико-математические основы прочности и пластичности. (Russian. Russian summary) [Mathematical-physical foundations of strength and plasticity] **99i:73039**
Kuttler, Kenneth L. *see* **Frémond, Michel; et al., 99k:35172**
Lagoudas, Dimitris C. (*with* Bhattacharyya, A.) On the correspondence between micromechanical models for isothermal pseudoelastic response of shape memory alloys and the Preisach model for hysteresis. (English summary) **99d:73079**
Mandyam, H. *see* **Drew, Donald A., 99i:73004**
Meyers, Albert Thomas Marie *see* **Xiao, Heng; et al., 99m:73021**
Mizel, V. J. (*with* Peletier, L. A.; Troy, William C.) Periodic phases in second order materials, and higher order model equations. **99g:73031**
Nadeau, J. C. (*with* Ferrari, Mauro[2]) Invariant tensor-to-matrix mappings for evaluation of tensorial expressions. (English summary) **99k:73030**
Nedjar, Boumediene *see* **Frémond, Michel; et al., 99k:35172**
Peletier, L. A. *see* **Mizel, V. J.; et al., 99g:73031**
Pence, Thomas J. *see* **Qiu, Geoffrey Yue, 99a:73041**
Ponte Castañeda, P. *see* **Kailasam, M., 99g:73007**
Qiu, Geoffrey Yue (*with* Pence, Thomas J.) Remarks on the behavior of simple directionally reinforced incompressible nonlinearly elastic solids. (English summary) **99a:73041**
Schiesse, P. Einige Bemerkungen zur Kettenregel bei Zeitableitungen isotroper Tensorfunktionen. (English and German summaries) [Some remarks on the chain rule on time derivatives of isotropic tensor functions] **99d:73020**
Shillor, Meir *see* **Frémond, Michel; et al., 99k:35172**
Troy, William C. *see* **Mizel, V. J.; et al., 99g:73031**
Xiao, Heng A unified theory of representations for scalar-, vector- and second order tensor-valued anisotropic functions of vectors and second order tensors. (English summary) **99c:73013**
— On anisotropic functions of vectors and second order tensors—all subgroups of the transverse isotropy group $C_{\infty h}$. (English summary) **99i:73014**
— (*with* Bruhns, Otto Timme; Meyers, Albert Thomas Marie) Strain rates and material spins. (English summary) **99m:73021**

73B10 Symmetry groups

Baerheim, Reidar Classification of symmetry by means of Maxwell multipoles. (English summary) **99a:73007**
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73B18 Nonlocal theories

Huang, Zai Xing Stress boundary conditions in linear nonlocal elasticity theories. (Chinese. English and Chinese summaries)

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73B25 Polar theories

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Iván, Ildikó (*with* Szeidl, György) Macro-conditions of compatibility and strain boundary conditions for some mixed plane boundary value problems of micropolar elastostatics. (English and German summaries)
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Kolář, Ivan On generalized parallelisms. (English summary) **99m:53041**
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73B27 Nonhomogeneous materials; homogenization

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— On symmetries and anisotropies of classical and micropolar linear elasticities: a new method based upon a complex vector basis and some systematic results. (English summary) **99e:73007**

— (*with* Bruhns, Otto Timme; Meyers, Albert Thomas Marie) On symmetric tensor-valued isotropic functions of a symmetric tensor and a skewsymmetric tensor and related transversely isotropic functions. (English summary) **99j:73005**
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Zakharov, D. D. The Green tensor and boundary integral equations for thin elastic layer-asymmetric anisotropic plates. (Russian. Russian summary) **99c:73045**

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Ding, Hao Jiang (*with* Peng, Nan Ling; Li, Wen Xian) A method of resolving the paradoxes concerning a cylindrical wedge subject to a concentrated couple at the vertex or to uniform traction on the surface. (Chinese. English and Chinese summaries)
Kaloerov, S. A. (*with* Avdyushina, E. V.) Stress concentration in an anisotropic half-plane with holes and cracks. (English summary) **99f:73019**
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Chen, Yi Zhou Novel numerical solution technique for evaluating eigenvalues in a plane notch problem. (English summary)
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Jaswon, M. A. (*with* El-Damanawi, K. E. S. K.) Uniformly moving elastic singularities in the classical theory of elasticity. (English summary) (*see* **99k:73001**)
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73B99 None of the above, but in this section

Badur, J. (*with* Povstenko, Yu. Z.) On two reinterpretations of Cosserat continuum: fiber bundle versus the motor calculus. (English summary) **99h:73013**
Bělík, Pavel (*with* Fosdick, Roger) The state of pure shear. (English summary) **99k:73031**
Berryman, James G. Transversely isotropic poroelasticity arising from thin isotropic layers. (English summary) **99e:73025**
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Chermant, J. L. *see* **Quenec'h, J. L.; et al., (99f:60005)**
Ciarletta, Michele On mixtures of nonsimple elastic solids. (English summary) **99d:73017**
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Epstein, Marcelo (*with* de León, Manuel) Geometrical theory of uniform Cosserat media. (English summary) **99d:73018**
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Jenkins, J. T. Kinetic theory for nearly elastic spheres. (English summary) **99f:73020**
— Particle segregation in collisional flows of inelastic spheres. (English summary) (*see* **99e:73003**)
Jeulin, D. *see* **Quenec'h, J. L.; et al., (99f:60005)**
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Laborde, Patrick About the mathematical modeling of irreversibility problems. **99m:73009**
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Reynolds, R. A. (*with* Humphrey, J. D.) Steady diffusion within a finitely extended mixture slab. (English summary) **99a:73034**
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Augusti, Giuliano (*with* Mariano, Paolo Maria) Stochastic evolution of microcracks in continua. (English summary) **99j:73082**
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Balueva, A. V. Simulation of slow kinetic fracture of gas emissionable materials. (English summary) (*see* **99i:73001**)
Binz, E. From the discrete to a continuum. (English summary) **99f:58030**
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Drew, Donald A. (*with* Passman, Stephen L.) ★ Theory of multicomponent fluids. (English summary) **99k:76143**
Dui, Guan-Suo Determination of the rotation tensor in the polar decomposition. (English summary) **99i:73025**
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Eringen, A. Cemal A mixture theory of electromagnetism and superconductivity. (English summary) **99f:78006**
Exadaktylos, G. E. Some basic half-plane problems of the cohesive elasticity theory with surface energy. (English summary) **99j:73035**
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Goddard, Joe D. Continuum modeling of granular assemblies: quasi-static dilatancy and yield. (English summary) **99e:73050**
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Nordenholz, Thomas R. (*with* O'Reilly, Oliver M.) On steady motions of isotropic, elastic Cosserat points. (English summary) **99a:73040**
Opriş, Dumitru (*with* Albu, I. D.) Mathematical model for diamond-type crystals with impurities or defects. (English summary) **99j:70024**
— (*with* Albu, I. D.) Geometrical aspects of the covariant dynamics of higher order. (English summary) **99e:58004**
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Shen, Hui Chuan A Lagrangian formulation of elasticity mechanics: establishing the basic equations for finite deformation problems by Routh's method. (Chinese. English and Chinese summaries) **99d:73031**
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Wenzelburger, Jan A kinematic model for continuous distributions of dislocations. (English summary) **99e:73088**
Wilmański, Krzysztof On the time of existence of weak discontinuity waves in poroelastic materials. (English summary) **99i:73032**
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73Cxx Elasticity {For the biharmonic equation, see 31A30, 31B30.}

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Argatov, I. I. Integral characteristics of rigid inclusions and cavities in the two-dimensional theory of elasticity. (Russian. Russian summary) **99m:73010**
Argyropoulos, E. (*with* Kiriaki, Kiriakie; Roach, G. F.) A modified Green's-function technique for the exterior Dirichlet problem in linear elasticity. (English summary) **99g:73020**
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Buchukuri, Tengiz (*with* Gegelia, Tengiz) Some dynamic problems of the theory of electroelasticity. (English and Georgian summaries) **99e:73029**
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Campbell, Alain (*with* Nazarov, Sergei A.) An asymptotic study of a plate problem by a rearrangement method. Application to the mechanical impedance. (English and French summaries) **99g:73022**
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Charalambopoulos, A. (*with* Gintides, D.) On the analyticity of the solution of the equation of elasticity in the exterior region of the cavity with respect to the wave number. (English summary) **99j:73019**
Ciarlet, Philippe G. Un lemme de J.-L. Lions et les inégalités de Korn sur les surfaces. (French summary) [A lemma of J.-L. Lions and Korn inequalities on surfaces] **99i:73015**
Dassios, George (*with* Rigou, Zafiria) On the theory of exterior elastic Herglotz functions. (English summary) **99g:73023**
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Gachechiladze, A. An implicit Signorini's problem in the theory of elasticity. (English summary) **99g:73024**
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Gaul, L. (*with* Schweizer, Bernhard) Analytische Berechnung der integralfreien Terme aus den Somigliana-Identitäten. (English and German summaries) [Analytical computation of the integral-free terms of the Somigliana identities] **99i:73016**
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Gelashvili, D. M. On the symmetry principle in the generalized theory of thermomoment elasticity. (Russian. English and Georgian summaries)
Geymonat, Giuseppe (*with* Gilardi, Gianni) Contre-exemples à l'inégalité de Korn et au lemme de Lions dans des domaines irréguliers. (French summary) [Counterexamples to the Korn inequality and the Lions lemma in irregular domains] **99i:73017**
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Gürgöze, İhsan T. (*with* Dokuz, M. Salih) Papkovich-Neuber solution for a mixture of two elastic solids and Kelvin problem. (English summary) **99i:73019**

Horn, Mary Ann Sharp trace regularity for the solutions of the equations of dynamic elasticity. (English summary) **99j:73021**

Hurtado, J. A. (*with* Freund, Lambert B.) The force on a dislocation near a weakly bonded interface. (English summary) **99m:73013**

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Jabauri, G. Solution of some special boundary problems of the elasticity theory in cylindrical coordinates. (English summary)

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Knops, R. J. (*with* Villaggio, Piero) Transverse decay of solutions in an elastic cylinder. (English and Italian summaries) **99h:73016**

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Bube, Kenneth P. *see* **Brookes, Robert W.**, **99a:65111**

Bugueva, T. V. Determining of the density function in the multi-dimensional inverse problem of isotropic elasticity in a sphere. (English summary) **99i:35174**

Cheverda, V. A. (*with* Clément, Francois; Khaidukov, V. G.; Kostin, V. I.) Linearized inversion of data of multi-offset data for vertically inhomogeneous background. (English summary) **99m:86015**

Clément, Francois *see* **Cheverda, V. A.; et al.**, **99m:86015**

Cuer, Michel (*with* Petit, Jean Louis) On the inverse seismic problem for horizontally layered media: subsidiary study. (English summary) **99c:86003**

Dassios, George (*with* Rigou, Zafiria) On the reconstruction of a rigid body in the theory of elasticity. (English summary) **99a:73052**

Dou, Xue-li *see* **Zhang, Guan-quan**, **99m:35269**

Elhay, Sylvan *see* **Ram, Yitshak M.**, **99f:73050**

Gerver, M. L. (*with* Kudryavtseva, E. A.) A new proof of theorems on a universal sequence and extremal properties of discrete measures. (Russian) **99g:44014**

Hald, Ole H. (*with* McLaughlin, Joyce R.) Inverse problems: recovery of BV coefficients from nodes. (English summary) **99b:34028**

Isakov, Victor ★ Inverse problems for partial differential equations. (English summary) **99b:35211**

Khaidukov, V. G. *see* **Cheverda, V. A.; et al.**, **99m:86015**

Kostin, V. I. *see* **Cheverda, V. A.; et al.**, **99m:86015**

Kudryavtseva, E. A. *see* **Gerver, M. L.**, **99g:44014**

McLaughlin, Joyce R. *see* **Hald, Ole H.**, **99b:34028**

Nakamura, Gen[1] (*with* Uhlmann, Gunther) A layer stripping algorithm in elastic impedance tomography. **99e:35244**

Oristaglio, Michael L. *see* **Wang, Tsili**, **99g:76137**

Petit, Jean Louis *see* **Cuer, Michel**, **99c:86003**

Ram, Yitshak M. (*with* Elhay, Sylvan) Constructing the shape of a rod from eigenvalues. (English summary) **99f:73050**

Rigou, Zafiria *see* **Dassios, George**, **99a:73052**

Sacks, Paul E. (*with* Yakhno, V. G.) The inverse problem for a layered anisotropic half space. **99m:35266**

Uhlmann, Gunther *see* **Nakamura, Gen[1]**, **99e:35244**

Wang, Jenn-Nan On the relation between singularities of coefficients and singularities of reflected waves in the Lamé system. (English summary) **99e:35220**

Wang, Tsili (*with* Oristaglio, Michael L.) An inverse algorithm for velocity reconstruction. (English summary) **99g:76137**

Xu, Yongzhi Some inverse problems in stratified media. (English summary) **99j:76116**

Yakhno, V. G. *see* **Sacks, Paul E.**, **99m:35266**

Zhang, Guan-quan (*with* Dou, Xue-li) Potential inversion problems for coupled system of downgoing and upcoming one-way wave equations. (English summary) **99m:35269**
— *see also* **Zhang, Yu[4]**, **99b:65112**
Zhang, Yu[4] (*with* Zhang, Guan-quan) The multi-reflection elimination method for solving inverse problems for the 1-D wave equation. (Chinese. English summary) **99b:65112**

73D70 Random waves

Papanicolaou, George C. (*with* Ryzhik, Leonid) Waves and transport. **99k:73063**
Ryzhik, Leonid *see* **Papanicolaou, George C., 99k:73063**

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Balk, A. M. (*with* Zakharov, Vladimir E.) Stability of weak-turbulence Kolmogorov spectra. (English summary) **99e:76057**
Chillan, J. (*with* Fouque, Jean-Pierre) Pressure fields generated by acoustical pulses propagating in randomly layered media. (English summary) **99d:73038**
Fouque, Jean-Pierre *see* **Chillan, J., 99d:73038**
Zakharov, Vladimir E. *see* **Balk, A. M., 99e:76057**

73D99 None of the above, but in this section

Amazigo, J. C. *see* **Budiansky, Bernard; et al.**
Arias, Rodrigo (*with* Lund, Fernando) Elastic fields of stationary and moving dislocations in three-dimensional finite samples. (English summary) **99k:73064**
Bloom, Frederick Internal variable modelling of wave propagation in laminates with nonlinearly elastic constituents. (English summary) **99c:73026**
Brevdo, Leonid High-order resonances in a homogeneous waveguide. (English summary) **99m:73033**
Budiansky, Bernard (*with* Fleck, N. A.; Amazigo, J. C.) On kink-band propagation in fiber composites. (English summary)
Fleck, N. A. *see* **Budiansky, Bernard; et al.**
Gotusso, Laura (*with* Veneziani, A.) Linear and nonlinear models for the vibrating string and the vibrating rod. (English summary) (*see* **99d:39001**)
Kondaurov, V. I. On the peculiarities of failure waves in highly homogeneous brittle materials. (Russian. Russian summary)
Lund, Fernando *see* **Arias, Rodrigo, 99k:73064**
Saakyan, S. G. The Green function for an elastic inhomogeneous acoustic half-space. (Russian. Armenian summary) **99g:73048**
Stoyan, V. A. On an approach to the investigation of initial-boundary value problems in mathematical physics. (Russian. English, Russian and Ukrainian summaries) **99j:73048**
Tolokonnikov, L. A. Sound transmission through an inhomogeneous anisotropic layer adjoining viscous fluids. (Russian. Russian summary)
Veneziani, A. *see* **Gotusso, Laura, (99d:39001)**

Items with secondary classifications in 73D99

Ahmed, S. M. Influence of gravity on the propagation of waves in granular medium. (English summary) **99k:73067**
Alonso Rasgado, M. T. *see* **Davey, Keith; et al., 99k:73118**
Antar, Nalan (*with* Demiray, Hilmi) Non-linear wave modulation in a prestressed fluid field thin elastic tube. (English summary) **99g:76160**
Balandin, D. V. Estimates for the maximal displacement of a rigid body in a hybrid system with dry friction. (Russian. Russian summary) **99c:73067**
Barles, Guy (*with* Souganidis, Panagiotis E.) A new approach to front propagation problems: theory and applications. (English summary) **99c:35106**
Béda, Gyula Investigation of constitutive relations of solids using partial differential equations. (English summary) (*see* **99m:34001**)
Broday, D. (*with* Kimmel, E.) On the axial dispersion induced by vibrations of a flexible tube. (English summary)
Burchuladze, Tengiz (*with* Rukhadze, R.) Fourier method in three-dimensional boundary-contact dynamic problems of moment elasticity theory. (English summary) **99h:73069**
— (*with* Rukhadze, R.) The Fourier method in three-dimensional dynamic problems of the linear theory of elasticity of mixtures. (English summary) **99g:73021**
— On three-dimensional dynamical problems of the generalized theory of elastothermodiffusion. (English and Georgian summaries) **99f:73010**
— (*with* Rukhadze, R.) Asymptotic distribution of eigenfunctions and eigenvalues of the basic boundary-contact oscillation problems of couplestress elasticity theory. (English summary) **99g:73034**
Cahn, John W. (*with* Mallet-Paret, John; Van Vleck, Erik S.) Traveling wave solutions for systems of ODEs on a two-dimensional spatial lattice. (English summary) **99j:35220**
Chiriţă, Stan (*with* Nappa, Ludovico) Effects of Saint-Venant type and uniqueness and continuous dependence results for incremental elastodynamics. (English summary) **99j:73026**
Ciarletta, Michele On mixtures of nonsimple elastic solids. (English summary) **99d:73017**
Crăciun, Ana *see* **Crăciun, Ion A., 99a:73019**
Crăciun, Ion A. (*with* Crăciun, Ana) Variational forms for the vibration of a macropolar piezoelectric thermoelastic body. (English summary) **99a:73019**
Davey, Keith (*with* Alonso Rasgado, M. T.; Rosindale, I.) The 3-D elastodynamic boundary element method: semi-analytical integration for linear isoparametric triangular elements. (English summary) **99k:73118**
Demiray, Hilmi Nonlinear wave modulation in a fluid filled thick elastic tube. (English summary) **99f:76139**
— *see also* **Antar, Nalan, 99g:76160**
Duncan, Dugald B. Difference approximations of acoustic and elastic wave equations. (English summary) (*see* **99f:65006**)
Gachechiladze, Dzh. Numerical solution of the second fundamental problem of dynamics in the mathematical theory of elasticity. (Russian. English and Georgian summaries)
Gałka, A. (*with* Telega, Józef Joachim) Dynamic contact problems for systems with finite degrees of freedom: the case of piecewise regular constraints. (English summary) **99g:73096**
Glushkov, E. V. (*with* Kirillova, E. V.) A dynamic mixed problem for a packet of elastic layers. (Russian. Russian summary)
Gorechko, A. N. Construction of the solutions of linear hyperbolic systems using Laguerre geometric-optic expansions. (English summary) **99h:35121**
Hetnarski, Richard B. (*with* Ignaczak, Józef) On soliton-like thermoelastic waves. (English summary) **99k:73021**
Ignaczak, Józef *see* **Hetnarski, Richard B., 99k:73021**
Irago, Hipólito (*with* Viaño Rey, Juan M.) Mathematical justification of elastodynamical models in rods. (English summary) (*see* **99d:00018**)
Ispolov, Yu. G. Oscillations of an extendable flexible filament with small sag. (Russian. Russian summary) **99c:73046**
Kimmel, E. *see* **Broday, D.**
Kirillova, E. V. *see* **Glushkov, E. V.**
Kusuoka, Shigeo (*with* Zhou, Xian Yin) Waves on fractal-like manifolds and effective energy propagation. (English summary) **99i:58148**
Lucey, Anthony D. The excitation of waves on a flexible panel in a uniform flow. (English summary) **99j:73078**
Mai, Yiu-Wing *see* **Zhang, Xi, (99i:73001)**
Mallet-Paret, John *see* **Cahn, John W.; et al., 99j:35220**
Mikhasëv, G. I. Localized wave forms of motion of an infinite shell of revolution. (Russian. Russian summary) **99c:73049**
Morrissey, John W. (*with* Rice, James R.) Crack front waves. (English summary) **99e:73083**
Movsisyan, L. A. On the modulation stability of nonlinear waves in a piezoelectric plate. (Russian. Armenian summary)
Nappa, Ludovico *see* **Chiriţă, Stan, 99j:73026**
Natroshvili, D. G. (*with* Shargorodskiĭ, E. M.) Three-dimensional problems of dynamics for elastic bodies with cuts. (Russian. English and Georgian summaries)
Naugolnykh, K. (*with* Ostrovskiĭ, L. A.) ★ Nonlinear wave processes in acoustics. (English summary) **99f:76120**
Ostrovskiĭ, L. A. *see* **Naugolnykh, K., 99f:76120**
Pastukhova, S. E. On the character of the damping of displacements in an elastic periodically perforated body with given deformation of the outer boundary under elastic constraints on the boundary of the cavities. (Russian. Russian summary) **99a:73012**
Plohr, Bradley J. (*with* Sharp, David H.) Instability of accelerated elastic metal plates. (English summary) **99f:73051**
Pryakhina, O. D. (*with* Smirnova, A. V.; Tukodova, O. M.) The method of fictitious absorption in dynamic problems of electro-elasticity. (Russian. Russian summary)
Rice, James R. *see* **Morrissey, John W., 99e:73083**
Rosindale, I. *see* **Davey, Keith; et al., 99k:73118**
Rossikhin, Yu. A. (*with* Shitikova, M. V.) Dynamic stability of an elastic cylindrical shell being in external contact with an elastic isotropic medium with respect to nonstationary excitations. (English summary) **99i:73050**
Rukhadze, R. *see* **Burchuladze, Tengiz, 99g:73021**; **99g:73034** *and* **99h:73069**
Shargorodskiĭ, E. M. *see* **Natroshvili, D. G.**
Sharp, David H. *see* **Plohr, Bradley J., 99f:73051**
Shitikova, M. V. *see* **Rossikhin, Yu. A., 99i:73050**
Smirnova, A. V. *see* **Pryakhina, O. D.; et al.**
Souganidis, Panagiotis E. *see* **Barles, Guy, 99c:35106**
Svetlichnaya, S. D. (*with* Yanyutin, E. G.) Unsteady deformation of elastic bodies that have the shape of an annular cylindrical segment. (Russian. Russian summary)
Telega, Józef Joachim *see* **Gałka, A., 99g:73096**
Tukodova, O. M. *see* **Pryakhina, O. D.; et al.**
Van Vleck, Erik S. *see* **Cahn, John W.; et al., 99j:35220**
Viaño Rey, Juan M. *see* **Irago, Hipólito, (99d:00018)**
Yanyutin, E. G. *see* **Svetlichnaya, S. D.**
Zhang, Xi (*with* Mai, Yiu-Wing) Damage wave propagation in elastic-brittle materials. (English summary) (*see* **99i:73001**)
Zhou, Xian Yin *see* **Kusuoka, Shigeo, 99i:58148**

73Exx Plasticity

Hill, Rodney ★ The mathematical theory of plasticity. **99f:73037**
Hughes, Thomas J. R. *see* **Simo, Juan Carlos, 99i:73038**
Simo, Juan Carlos (*with* Hughes, Thomas J. R.) ★ Computational inelasticity. (English summary) **99i:73038**

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Alber, Hans-Dieter ★ Materials with memory. **99i:73040**
(Bruhns, Otto Timme) *see* **IUTAM Symposium: Micro- and Macrostructural Aspects of Thermoplasticity**
(Herrmann, H. J.) *see* **Physics of dry granular media, 99e:73003**
(Hovi, J.-P.) *see* **Physics of dry granular media, 99e:73003**
(Luding, S.) *see* **Physics of dry granular media, 99e:73003**
(Perzyna, Piotr) *see* **Localization and fracture phenomena in inelastic solids, 99g:73002**
Simo, Juan Carlos Numerical analysis and simulation of plasticity. **99m:73064**
(Stein, Erwin) *see* **IUTAM Symposium: Micro- and Macrostructural Aspects of Thermoplasticity**

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Bochum ★ IUTAM Symposium on Micro- and Macrostructural Aspects of Thermoplasticity.
Cargèse ★ Physics of dry granular media. **99e:73003**
IUTAM Symposium:
Micro- and Macrostructural Aspects of Thermoplasticity ★ IUTAM Symposium on Micro- and Macrostructural Aspects of Thermoplasticity.
Localization and fracture phenomena in inelastic solids ★ Localization and fracture phenomena in inelastic solids. **99g:73002**
NATO Advanced Study Institute:
Physics of Dry Granular Media ★ Physics of dry granular media. **99e:73003**

Physics of dry granular media ★ Physics of dry granular media. **99e:73003**
School:
Localization and Fracture Phenomena in Inelastic Solids ★ Localization and fracture phenomena in inelastic solids. **99g:73002**
Physics of Dry Granular Media ★ Physics of dry granular media. **99e:73003**
Udine ★ Localization and fracture phenomena in inelastic solids. **99g:73002**

73E05 Constitutive specifications (yield criteria, flow rules, hardening, softening)

Borino, Guido *see* **Polizzotto, Castrenze**, **99f:73038**
Brokate, Martin (*with* Krejčí, Pavel) On the wellposedness of the Chaboche model. (English summary) **99e:73047**
— Elastoplastic constitutive laws of nonlinear kinematic hardening type. **99a:73058**
— (*with* Krejčí, Pavel) Wellposedness of kinematic hardening models in elastoplasticity. (English and French summaries) **99e:73048**
Bruhns, Otto Timme (*with* Xiao, Heng; Meyers, Albert Thomas Marie) On representations of yield functions for crystals, quasicrystals and transversely isotropic solids. (English summary) **99j:73049**
Carini, Angelo *see* **Pandolfi, Anna**, **99j:73052**
Drăguşin, Lucia Bifurcations in the mechanics of hypoelastic composite materials. (English summary) **99j:73050**
Fuschi, P. (*with* Polizzotto, Castrenze) Internal-variable constitutive model for rate-independent plasticity with hardening saturation surface. (English summary) **99b:73018**
Gao, Xin-Lin A mathematical analysis of the elasto-plastic plane stress problem of a power-law material. (English summary) **99e:73049**
Goddard, Joe D. Continuum modeling of granular assemblies: quasi-static dilatancy and yield. (English summary) **99e:73050**
Hill, Rodney Plastic deformation and instability in thin-walled tubes under combined loading: a general theory. II. (English summary) **99k:73065**
Hlaváček, Ivan Reliable solution of an elastoplastic Reissner-Mindlin beam for Hencky's model with uncertain yield function. (English summary) **99b:73019**
Hong, Hong-Ki (*with* Liu, Chein-Shan) Internal symmetry in bilinear elastoplasticity. (English summary) **99j:73051**
Klyushnikov, V. D. ★ Физико-математические основы прочности и пластичности. (Russian. Russian summary) [Mathematical-physical foundations of strength and plasticity] **99i:73039**
Krejčí, Pavel *see* **Brokate, Martin**, **99e:73047** *and* **99e:73048**
Lambrecht, Matthias (*with* Miehe, Christian) Two non-associated isotropic elastoplastic hardening models for frictional materials. (English summary) **99m:73034**
Liu, Chein-Shan *see* **Hong, Hong-Ki**, **99j:73051**
Loret, Benjamin *see* **Rizzi, Egidio**, **99j:73053**
Meyers, Albert Thomas Marie *see* **Bruhns, Otto Timme; et al.**, **99j:73049**
Miehe, Christian *see* **Lambrecht, Matthias**, **99m:73034**
Novozhilova, L. S. (*with* Urazhdin, S. V.) Analytic computation of the energy characteristics of slip-line fields in problems of plane plastic deformation. (Russian. Russian summary) **99d:73045**
Pandolfi, Anna (*with* Carini, Angelo) Some extremum properties of finite-step solutions in elastoplasticity. (English summary) **99j:73052**
Plaschko, P. (*with* Schaflinger, U.) Absolute instabilities in two-layer gravity driven film flow with a free surface. (English summary) **99c:73027**
Polizzotto, Castrenze A maximum reduced dissipation principle for nonassociative plasticity. (English and Italian summaries) **99k:73066**
— (*with* Borino, Guido) A thermodynamics-based formulation of gradient-dependent plasticity. (English summary) **99f:73038**
— *see also* **Fuschi, P.**, **99b:73018**
Pruchnicki, Erick Homogenized elastoplastic properties for a partially cohesive composite material. (English summary) **99e:73051**
Radu, Constantin F. Sur les équations constitutives de la déformation plastique d'un milieu composite biphasique. (French and Romanian summaries) [The constitutive equations of plastic deformation for a two-phase composite medium]
Rees, D. W. A. Elastic-plastic stresses in rotating discs by von Mises and Tresca. (English summary)
Rizzi, Egidio (*with* Loret, Benjamin) Strain localization in fluid-saturated anisotropic elastic-plastic porous media. (English summary) **99j:73053**
Schaflinger, U. *see* **Plaschko, P.**, **99c:73027**
Urazhdin, S. V. *see* **Novozhilova, L. S.**, **99d:73045**
Valanis, K. C. Diffusion potential and well-posedness in non-associative plasticity. (English summary) **99f:73039**
Vermeer, P. A. Non-associated plasticity for soils, concrete and rock. (English summary) (*see* **99e:73003**)
Xiao, Heng *see* **Bruhns, Otto Timme; et al.**, **99j:73049**
Życzkowski, Michał Discontinuous bifurcations in the case of the Burzyński-Torre yield condition. (English summary) **99g:73049**

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Baaijens, F. P. T. *see* **van Rens, B. J. E.; et al.**, **99e:73014**
Babuška, Ivo M. (*with* Shi, Peter) Regularity of solutions to a one-dimensional plasticity model. (English and French summaries) **99g:73051**
Bose, K. (*with* Mataga, P. A.; Ponte Castañeda, P.) Stable crack growth along a brittle/ductile interface. II. Small scale yielding solutions and interfacial toughness predictions. (English summary) **99k:73098**
Brekelmans, W. A. M. *see* **van Rens, B. J. E.; et al.**, **99e:73014**
Chełmiński, Krzysztof Coercive limits for a subclass of monotone constitutive equations in the theory of inelastic material behaviour of metals. (English summary) **99a:73063**
De Saxcé, G. *see* **Save, M. A.; et al.**, **99g:73050**
Didwania, A. K. *see* **Goddard, Joe D.**, **99a:73068**
Gadala, M. S. (*with* Wang, J.) ALE formulation and its application in solid mechanics. (English summary) **99h:73076**
Garaizar, Xabier (*with* Gordon, Michael K.; Shearer, Michael) An elastoplasticity model for antiplane shearing with a non-associative flow rule: genuine nonlinearity of plastic waves. **99a:73064**
Goddard, Joe D. (*with* Didwania, A. K.) Computations of dilatancy and yield surfaces for assemblies of rigid frictional spheres. (English summary) **99a:73068**
Gordon, Michael K. *see* **Garaizar, Xabier; et al.**, **99a:73064**
Kamlah, M. (*with* Tsakmakis, Ch.) Use of isotropic thermoelasticity laws in finite deformation viscoplasticity models. (English summary) **99m:73035**
Kiselev, A. B. On the numerical integration of equations of the flow of a hardening elastoplastic medium. (Russian. Russian summary) **99e:73101**
Kuhn, Günther (*with* Partheymüller, P.) Analysis of 3D elastoplastic notch and crack problems using boundary element method. **99j:73107**
Lin, Baojiu *see* **Nicholson, D. W.**, **99k:73074**
Massonnet, C. E. *see* **Save, M. A.; et al.**, **99g:73050**
Mataga, P. A. *see* **Bose, K.; et al.**, **99k:73098**
Nicholson, D. W. (*with* Lin, Baojiu) Tangent modulus tensor in plasticity under finite strain. (English summary) **99k:73074**
Olson, Tamara Bounding the effective yield behavior of mixtures. (English summary) **99c:73004**
Ortiz, Michael (*with* Stainier, L.) The variational formulation of viscoplastic constitutive updates. (English summary) **99m:73036**
Partheymüller, P. *see* **Kuhn, Günther**, **99j:73107**
Ponte Castañeda, P. *see* **Bose, K.; et al.**, **99k:73098**
van Rens, B. J. E. (*with* Brekelmans, W. A. M.; Baaijens, F. P. T.) Homogenization of the elastoplastic behavior of perforated plates. (English summary) **99e:73014**
Save, M. A. (*with* Massonnet, C. E.; De Saxcé, G.) ★ Plastic limit analysis of plates, shells and disks. **99g:73050**
Schulz, Monika ★ A-posteriori-Fehlerschätzer für mittels Finiter Elemente modellierte elasto-plastische Verformungsvorgänge. (German) [A posteriori error estimator for elasto-plastic deformation processes modelled by finite elements] **99i:73074**
Shearer, Michael *see* **Garaizar, Xabier; et al.**, **99a:73064**
Shi, Jingyu *see* **Tordesillas, Antoinette**, **99g:73060**
Shi, Peter *see* **Babuška, Ivo M.**, **99g:73051**
Stainier, L. *see* **Ortiz, Michael**, **99m:73036**
Tordesillas, Antoinette (*with* Shi, Jingyu) Indentation of a double shearing dilatant granular material by a smooth rigid wedge. (English summary) **99g:73060**
Trzęsowski, A. Kinematics of edge dislocations. II. Orowan-type kinematic relations. (English summary) **99g:73018**
Tsakmakis, Ch. *see* **Kamlah, M.**, **99m:73035**
Visintin, Augusto Six talks on hysteresis. **99c:47118**
Wang, J. *see* **Gadala, M. S.**, **99h:73076**

73E10 Method of successive approximations

Ottosen, N. S. *see* **Ristinmaa, M.**, **99d:73046**
Ristinmaa, M. (*with* Ottosen, N. S.) Viscoplasticity based on an additive split of the conjugated forces. (English summary) **99d:73046**

73E20 Limit analysis

Andersen, Knud D. (*with* Christiansen, Edmund; Overton, Michael L.) Computing limit loads by minimizing a sum of norms. (English summary) **99a:73059**
Bojarski, Jarosław L. The unilateral contact condition in Hencky plasticity for plates. (English summary) **99j:73054**
— The relaxation of Signorini problems in Hencky plasticity. I. Three-dimensional solid. **99a:73060a**
— The relaxation of Signorini problems in Hencky plasticity. II. Plates. **99a:73060b**
Christiansen, Edmund *see* **Andersen, Knud D.; et al.**, **99a:73059**
De Saxcé, G. *see* **Save, M. A.; et al.**, **99g:73050**
Khromov, A. I. Localization of plastic deformations and the fracture of ideal plastic-rigid bodies. (Russian)
Leckie, F. A. *see* **Ponter, A. R. S.**, **99a:73061**
Massonnet, C. E. *see* **Save, M. A.; et al.**, **99g:73050**
Overton, Michael L. *see* **Andersen, Knud D.; et al.**, **99a:73059**
Ponter, A. R. S. (*with* Leckie, F. A.) Bounding properties of metal-matrix composites subjected to cyclic thermal loading. (English summary) **99a:73061**
Save, M. A. (*with* Massonnet, C. E.; De Saxcé, G.) ★ Plastic limit analysis of plates, shells and disks. **99g:73050**

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Bojarski, Jarosław L. The unilateral contact condition in Hencky plasticity for n-dimensional body. (English summary) **99d:73081**

73E50 Time-dependent problems

Ahmed, S. M. Influence of gravity on the propagation of waves in granular medium. (English summary) **99k:73067**
Alber, Hans-Dieter ★ Materials with memory. **99i:73040**
Anderssen, Robert S. (*with* Götz, Ivan G.; Hoffmann, Karl-Heinz[1]) The global behavior of elastoplastic and viscoelastic materials with hysteresis-type state equations. (English summary) **99a:73062**
Babuška, Ivo M. (*with* Shi, Peter) Regularity of solutions to a one-dimensional plasticity model. (English and French summaries) **99g:73051**
Badea, Lori On a plasticity problem with damage. (English summary) **99i:73041**
Batra, R. C. Numerical solutions of initial-boundary-value problems with shear strain localization. (English summary) (*see* **99g:73002**)
Bebernes, Jerrold Nonlocal problems modelling the formation of shear bands. (English summary) (*see* **99d:00026**)
Chełmiński, Krzysztof Coercive limits for a subclass of monotone constitutive equations in the theory of inelastic material behaviour of metals. (English summary) **99a:73063**

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Garaizar, Xabier (*with* Gordon, Michael K.; Shearer, Michael) An elastoplasticity model for antiplane shearing with a non-associative flow rule: genuine nonlinearity of plastic waves. **99a:73064**
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Ibrahimbegovic, Adnan (*with* Gharzeddine, Fadi) Finite deformation plasticity in principal axes: from a manifold to the Euclidean setting. (English summary)
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73F05 Creep and relaxation functions

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Haider, Mansoor A. (*with* Holmes, Mark H.) Three-dimensional viscoelasticity in finite strain: formulation of a rate-type constitutive law consistent with dissipation. (English summary) **99a:73070**
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Hassani, Seddiq (*with* Alaoui Soulimani, A.; Ehrlacher, A.) A nonlinear viscoelastic model: the pseudo-linear model. (English summary) **99c:73032**
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— *see also* **Ciarletta, Michele, 99m:73038**
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— (*with* Luo, Tao) Large-time behavior of solutions to the equations of one-dimensional nonlinear thermoviscoelasticity. **99h:73039**
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Chen, Gui-Qiang (*with* Dafermos, Constantine M.) Global solutions in L^∞ for a system of conservation laws of viscoelastic materials with memory. (English summary) **99b:35131**
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— *see also* **Ding, Rui; et al.**, **99d:73095**; **Xu, Kai-Yu**, **99h:73048** *and* **Fan, Xiao Jun**
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— Explicit stability conditions for stochastic integro-differential equations with non-selfadjoint operator coefficients. (English summary) **99k:45029**
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Esmailzadeh, E. (*with* Shahani, A. R.) Longitudinal and rotational coupled vibration of viscoelastic bars with tip mass. (English summary) **99h:73044**
Fabiano, Richard H. Uniformly stable approximation for a linear viscoelastic model. (English summary) **99a:45019**
Fan, Xiao Jun (*with* Cheng, Chang Jun) Nonlinear axisymmetric bending and composite problems of viscoelastic circular plates. (Chinese. English and Chinese summaries)
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Ikehata, Ryo (*with* Matsuyama, Tokio; Nakao, Mitsuhiro) Global solutions to the initial-boundary value problem for the quasilinear viscoelastic wave equation with a perturbation. **99h:35141**
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Janno, J. (*with* von Wolfersdorf, Lothar) Identification of weakly singular memory kernels in viscoelasticity. (English and German summaries) **99h:45019**
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Liu, Wei-Jiu (*with* Williams, Graham H.) Partial exact controllability for the linear thermo-viscoelastic model. (English summary) **99m:73006**
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Matsumura, Akitaka (*with* Mei, Ming) Nonlinear stability of viscous shock profile for a non-convex system of viscoelasticity. **99c:35147**
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Muñoz Rivera, Jaime E. (*with* Barreto, Rioco Kamei) Decay rates of solutions to thermoviscoelastic plates with memory. (English summary) **99j:73012**
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Rakshit, Amit Kumar (*with* Sengupta, P. R.) Magneto-thermo-visco-elastic waves in an initially stressed conducting layer. (English summary) **99j:73041**
Rybka, Piotr (*with* Hoffmann, Karl-Heinz[1]) Convergence of solutions to the equation of quasi-static approximation of viscoelasticity with capillarity. (English summary) **99h:35146**
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Schanz, M. (*with* Gaul, L.; Wenzel, Wolfgang; Zastrau, B.) A boundary element formulation for generalized viscoelastic solids in time domain. (*see* **99e:00017**)
Schulze, Matthew R. (*with* Shearer, Michael) Undercompressive shocks for a system of hyperbolic conservation laws with cubic nonlinearity. **99m:35156**
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Soize, C. Reduced models in the medium frequency range for general dissipative structural-dynamics systems. (English summary) **99d:73061**
Soula, M. (*with* Chevalier, Y.) La dérivée fractionnaire en rhéologie des polymères. Application aux comportements élastiques et viscoélastiques linéaires et non linéaires des élastomères. (English and French summaries) [Fractional derivatives in polymer rheology. Application to the linear and nonlinear elastic and viscoelastic behavior of elastomers] **99k:73070**
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Xu, Chong-Ye (*with* Marsden, Jerrold E.) Asymptotic stability for equilibria of nonlinear semiflows with applications to rotating viscoelastic rods. I. **99e:34088**
Xu, Kai-Yu (*with* Cheng, Chang Jun) The subharmonic bifurcation of a viscoelastic circular cylindrical shell. (English summary) **99h:73048**
Yi, Yeong-Moo (*with* Park, Sang-Hoon; Youn, Sung-Kie) Asymptotic homogenization of viscoelastic composites with periodic microstructures. (English summary) **99a:73014**
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Zhu, Changjiang Existence of the entropy solution for a viscoelastic model. (English summary) **99e:35135**
Zhu, Pei Cheng The asymptotic behavior of solutions to a system of thermoviscoelasticity equations for shape memory alloys. (Chinese. Chinese summary) **99d:73014**
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73F20 Aging of materials

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Ermolenko, G. Yu. A principle for the correspondence of boundary value static problems of nonlinear elastoviscosity with aging to boundary value problems of elasticity theory. (Russian. Russian summary) **99g:73065**

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– Modeling viscoelastic response of particulate polymeric composites with high volume fractions of fillers. (English summary)
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73H05 Buckling

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Aassila, Mohammed Strong asymptotic stability of isotropic elasticity systems with internal damping. (English summary) **99i:73036**
— (*with* Guesmia, Aissa) Strong asymptotic stability of a nonlinear nonisotropic elastodynamic system. (English summary) **99b:93042**
Ali, Wehbe Boundary stabilization of the equation of Kirchhoff plates. **99f:35130**
Antman, Stuart S. (*with* Marlow, Randall S.; Vlahacos, Constantine P.) The complicated dynamics of heavy rigid bodies attached to deformable rods. (English summary) **99e:73068**
Avalos, George (*with* Lasiecka, Irena) Uniform decays in nonlinear thermoelastic systems. (English summary) **99f:93075**
— (*with* Lasiecka, Irena) Exponential stability of an uncontrolled thermoelastic system with varying boundary conditions. (English summary) **99b:73008**
Bisognin, E. (*with* Bisognin, V.; Perla Menzala, Gustavo; Zuazua, Enrique) On exponential stability for von Kármán equations in the presence of thermal effects. (English summary) **99a:73081**
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Lucey, Anthony D. The excitation of waves on a flexible panel in a uniform flow. (English summary) **99j:73078**
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Xu, Chong-Ye (*with* Marsden, Jerrold E.) Asymptotic stability for equilibria of nonlinear semiflows with applications to rotating viscoelastic rods. I. **99e:34088**
Xu, Kai-Yu (*with* Cheng, Chang Jun) The subharmonic bifurcation of a viscoelastic circular cylindrical shell. (English summary) **99h:73048**
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— (*with* Il′ichev, A. T.) Exponential neutral stability of a floating ice layer. (English summary) **99c:73064**
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Levy, Alan J. The affect of interfacial shear on cavity formation at an elastic inhomogeneity. (English summary) **99e:73042**
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Ovchinnikov, E. È. (*with* Xanthis, Leonidas S.) Iterative subspace correction methods for thin elastic structures and Korn's type inequality in subspaces. (English summary) **99f:73087**
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Agalarov, D. G. (*with* Gumbataliev, M. A.; Nabiev, I. M.) Quasisteady motion of a filament in a space. (Russian. English and Azerbaijani summaries)
Frontini, Marco (*with* Gotusso, Laura) A conservative nonlinear model for a discrete vibrating string fixed at the end points. (English summary) **99g:73067**
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Iliev, Christo On the non-integrability of a Hamiltonian system resulting from a problem for elastic string. (English and Russian summaries) **99f:73047**
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Thess, A. (*with* Zikanov, O.; Nepomnyashchy, A.) Finite-time singularity in the vortex dynamics of a string. (English summary) **99k:73075**
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Barsegyan, V. R. The problem of observing the vibrations of a string. (Russian. Russian and Armenian summaries) **99h:73056**
Frota, C. L. (*with* Lar′kin, N. A.) On a variational inequality for the nonhomogeneous degenerated Kirchhoff equation with a frictional damping. (English summary) **99i:35159**
Gavrilov, S. Non-stationary problems in dynamics of a string on an elastic foundation subjected to a moving load. (English summary) **99m:73046**
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Ispolov, Yu. G. Oscillations of an extendable flexible filament with small sag. (Russian. Russian summary) **99c:73046**
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Kolpakov, A. G. (*with* Sheremet, I. G.) An asymptotic model of a membrane and a string. (Russian. Russian summary) **99g:73008**
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73K05 Beams, columns, rods

Adda-Bedia, M. *see* **Patrício da Silva, Pedro; et al., 99h:73042**
Ahmed, N. U. (*with* Harbi, H.) Mathematical analysis of dynamic models of suspension bridges. (English summary) **99d:73050**
Alvarez Dios, José A. (*with* Viaño Rey, Juan M.) An asymptotic model for the bending of warped beams. (Spanish) (*see* **99d:00018**)
— (*with* Viaño Rey, Juan M.) Mathematical justification of a one-dimensional model for general elastic shallow arches. (English summary) **99a:73078**
Alvarez Vázquez, L. J. (*with* Rodríguez-Rodríguez, A. R.; Viaño Rey, Juan M.) Genuinely clamped beams. (Spanish) (*see* **99d:00018**)
— (*with* Rodríguez-Rodríguez, A. R.; Viaño Rey, Juan M.) Genuinely clamped beams. (English summary) **99f:73048**
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Irago, Hipólito (*with* Viaño Rey, Juan M.) Mathematical justification of elastodynamical models in rods. (English summary) (*see* **99d:00018**)
— (*with* Kerdid, Nabil; Viaño Rey, Juan M.) Analyse asymptotique des modes de hautes fréquences dans les poutres minces. (English and French summaries) [Asymptotic analysis of high-frequency modes in thin rods] **99g:73070**
— (*with* Viaño Rey, Juan M.) Second-order asymptotic approximation of flexural vibrations in elastic rods. (English summary) **99g:73071**
— (*with* Viaño Rey, Juan M.) Asymptotic error estimation in linear elastic beam models. (English and French summaries) **99k:73076**
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Boisse, P. (*with* Coffignal, G.) Error through the constitutive relation for beam or C° plate finite elements: static and vibration analyses. (English summary) (*see* **99d:73001**)

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— Exact travelling-wave solutions of an integrable equation arising in hyperelastic rods. (English summary) **99g:73046**

— (*with* Cai, Zongxi) Uniform asymptotic analysis for waves in an incompressible elastic rod. II. Disturbances superimposed on a pre-stressed state. (English summary) **99k:73053**

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D'yakonov, E. G. Asymptotically optimal algorithms for problems of Stokes type in strengthened Sobolev spaces. (Russian) **99a:73133**

Esmailzadeh, E. (*with* Shahani, A. R.) Longitudinal and rotational coupled vibration of viscoelastic bars with tip mass. (English summary) **99h:73044**

Fares, M. E. Mixed variational formulation in geometrically non-linear elasticity and a generalized nth-order beam theory. (English summary) **99m:73020**

Feng, De Xing (*with* Shi, Donghua; Zhang, Weitao) Boundary feedback stabilization of Timoshenko beam with boundary dissipation. (English summary) **99i:93051**

Feuer, Arie (*with* Levine, Michael) Vibrational control of a flexible beam. (English summary)

Fliess, Michel (*with* Mounier, Hugues; Rouchon, Pierre; Rudolph, Joachim) Systèmes linéaires sur les opérateurs de Mikusiński et commande d'une poutre flexible. (English and French summaries) [Linear systems involving Mikusiński operators and control of a flexible beam] **99c:93057**

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Gruttmann, F. (*with* Sauer, R.; Wagner, Werner) A geometrical nonlinear eccentric 3D-beam element with arbitrary cross-sections. (English summary)

Habbal, Abderrahmane Direct approach to the minimization of the maximal stress over an arch structure. (English summary) **99c:73055**

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van der Heijden, G. H. M. (*with* Champneys, A. R.; Thompson, J. M. T.) The spatial complexity of localized buckling in rods with noncircular cross section. (English summary) **99g:73066**

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Hlaváček, Ivan Reliable solution of an elastoplastic Reissner-Mindlin beam for Hencky's model with uncertain yield function. (English summary) **99b:73019**

— (*with* Lovíšek, Ján) Optimal control of semi-coercive variational inequalities with application to optimal design of beams and plates. (English and German summaries) **99f:49013**

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Linnér, Anders Explicit elastic curves. (English summary) **99k:58039**

Liu, Kangsheng (*with* Liu, Zhuangyi) Exponential decay of energy of the Euler-Bernoulli beam with locally distributed Kelvin-Voigt damping. (English summary) **99a:93082**

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Prokhorovich, T. N. Application of a Fuchsian system to the solution of problems in the plane theory of elasticity. (Russian. English and Russian summaries)
Providas, E. *see* **Kattis, M. A., 99d:73064**
Ramos, R. R. *see* **Bravo Castillero, Julián; et al., 99j:73006**
Ru, Chong-Qing Three-phase elliptical inclusions with internal uniform hydrostatic stresses. (English summary) **99j:73023**
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Shindzhikashvili, O. On an application of the theory of functions of a complex variable to the plane problem of non-homogeneous theory of elasticity. (English and Georgian summaries) **99k:73038**
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Timergaliev, S. N. *see* **Teregulov, I. G., 99h:73051**

73V99 None of the above, but in this section

Cochelin, B. *see* **Najah, A.; et al., 99a:73136**
Damil, N. *see* **Najah, A.; et al., 99a:73136**
Najah, A. (*with* Cochelin, B.; Damil, N.; Potier-Ferry, Michel) A critical review of asymptotic numerical methods. (English summary) **99a:73136**
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Andrianov, Igor V. (*with* Olevskiĭ, V. I.; Tokarzewski, Stanisław) A modified Adomian decomposition method. (Russian. Russian summary) **99m:34017**
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(Germain, Paul) *see* **Nguyen Quoc Son, 99e:73063**
Giona, M. *see* **Schwalm, W. A.; et al., 99j:58008**
Liolios, A. A. A convolutional approach for two-sided solution bounding in unilateral structural elastodynamics. (English summary)
Mainardi, Francesco Fractional calculus: some basic problems in continuum and statistical mechanics. (English summary) **99f:26010**
Mikhas′kiv, V. V. Boundary-integral formulation of three-dimensional problems of steady vibrations of an infinite body with a crack located on an open Lyapunov surface. (English summary) **99h:73032**
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Nguyen Quoc Son ★ Stabilité des structures élastiques. (French. French summary) [Stability of elastic structures] **99e:73063**
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Panagiotopoulos, Panagiotis D. (*with* Panagouli, O. K.) Fractal geometry in contact mechanics and numerical applications. (English summary) **99a:73113**
Panagouli, O. K. *see* **Panagiotopoulos, Panagiotis D., 99a:73113**
Ru, Chong-Qing *see* **Schiavone, Peter, 99e:73035**
Sändig, Anna-Margarete (*with* Wendland, Wolfgang L.) Asymptotic expansions of elastic fields in domains with boundary and structural singularities. **99k:73041**
Schiavone, Peter (*with* Ru, Chong-Qing) Integral equation methods in plane-strain elasticity with boundary reinforcement. (English summary) **99e:73035**
Schwalm, M. K. *see* **Schwalm, W. A.; et al., 99j:58008**
Schwalm, W. A. (*with* Moritz, B.; Giona, M.; Schwalm, M. K.) Vector difference calculus for physical lattice models. (English summary) **99j:58008**
Tokarzewski, Stanisław *see* **Andrianov, Igor V.; et al., 99m:34017**
Wendland, Wolfgang L. *see* **Sändig, Anna-Margarete, 99k:73041**

76–XX Fluid mechanics {For general continuum mechanics, see 73Bxx, or other parts of 73–XX.}

76–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Items with secondary classifications in 76–00

(Cotta, Renato M.) *see* **Integral transform method in thermal and fluids sciences and engineering**

Items listed otherwise than by author

Integral transform method in thermal and fluids sciences and engineering ★ The integral transform method in thermal and fluids sciences and engineering.
Rio de Janeiro ★ The integral transform method in thermal and fluids sciences and engineering.
Workshop:
Integral Transforms ★ The integral transform method in thermal and fluids sciences and engineering.

76–01 Instructional exposition (textbooks, tutorial papers, etc.)

Faber, T. E. ★ Fluid dynamics for physicists. (English summary) **99f:76001**
Warsi, Z. U. A. ★ Fluid dynamics. (English summary) **99k:76001**

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Blokhin, A. M. (*with* Tkachev, D. L.) ★ Mixed problems for the wave equation in coordinate domains. **99m:35137**
Johnson, R. S. ★ A modern introduction to the mathematical theory of water waves. (English summary) **99m:76017**
Tkachev, D. L. *see* **Blokhin, A. M., 99m:35137**

76–02 Research exposition (monographs, survey articles)

(Castaing, Bernard) *see* **Hydrodynamics and nonlinear instabilities, 99i:76001**
(Fauve, Stephan) *see* **Hydrodynamics and nonlinear instabilities, 99i:76001**
(Godrèche, Claude) *see* **Hydrodynamics and nonlinear instabilities, 99i:76001**
(Hakim, Vincent) *see* **Hydrodynamics and nonlinear instabilities, 99i:76001**
(Huerre, Patrick) *see* **Hydrodynamics and nonlinear instabilities, 99i:76001**
(Joulin, G.) *see* **Hydrodynamics and nonlinear instabilities, 99i:76001**
Lions, Pierre-Louis ★ Mathematical topics in fluid mechanics. Vol. 2. (English summary) **99m:76001**
(Manneville, Paul) *see* **Hydrodynamics and nonlinear instabilities, 99i:76001**
(Rossi, Maurice) *see* **Hydrodynamics and nonlinear instabilities, 99i:76001**
Scardovelli, Ruben (*with* Zaleski, Stéphane) Direct numerical simulation of free-surface and interfacial flow. **99m:76002**
Straub, Dieter ★ Alternative mathematical theory of non-equilibrium phenomena. **99c:76001**
(Vidal, P.) *see* **Hydrodynamics and nonlinear instabilities, 99i:76001**
Zaleski, Stéphane *see* **Scardovelli, Ruben, 99m:76002**

Items listed otherwise than by author

Hydrodynamics and nonlinear instabilities ★ Hydrodynamics and nonlinear instabilities. **99i:76001**

Items with secondary classifications in 76–02

Arnol'd, Vladimir Igorevich (*with* Khesin, Boris A.) ★ Topological methods in hydrodynamics. (English summary) **99b:58002**
Friedman, Avner ★ Mathematics in industrial problems. Part 8. (English summary) **99c:00008a**
— ★ Mathematics in industrial problems. Part 9. (English summary) **99c:00008b**
— ★ Mathematics in industrial problems. Part 10. (English summary) **99g:00028**
Gawędzki, Krzysztof (*with* Kupiainen, Antti) Universality in turbulence: an exactly solvable model. **99f:76069**
Khesin, Boris A. *see* **Arnol'd, Vladimir Igorevich, 99b:58002**
Kupiainen, Antti *see* **Gawędzki, Krzysztof, 99f:76069**
Müller, Ingo (*with* Ruggeri, Tommaso) ★ Rational extended thermodynamics. (English summary) **99h:80001**
(du Plessis, J. Prieur) *see* **Fluid transport in porous media, 99a:76153**
(Rahman, Matiur) *see* **Laminar and turbulent boundary layers, 99d:76027**
Ruggeri, Tommaso *see* **Müller, Ingo, 99h:80001**
(Struchtrup, Henning) *see* **Müller, Ingo, 99h:80001**
(Weiss, Wolf) *see* **Müller, Ingo, 99h:80001**

Items listed otherwise than by author

Fluid transport in porous media ★ Fluid transport in porous media. **99a:76153**
Laminar and turbulent boundary layers ★ Laminar and turbulent boundary layers. **99d:76027**

76–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 76–03

de Boer, Reint Theory of porous media—past and present. (English summary) **99d:73016**
(Chéret, Roger) *see* **Classic papers in shock compression science, 99m:76076**
(Einstein, Albert) *see* **Sterrett, Susan G., 99d:01027**
(Johnson, James N.) *see* **Classic papers in shock compression science, 99m:76076**
(Lichtenstein, Leon) *see* **Schmidt, Bernd Gerhard, 99j:01019**
(Mach, Ernst) *see* **Sterrett, Susan G., 99d:01027**
Schmidt, Bernd Gerhard Leon Lichtenstein's work on rotating fluids. **99j:01019**
Smith, George E. Newton's study of fluid mechanics. (English summary) **99j:01009**
Sterrett, Susan G. Sounds like light: Einstein's special theory of relativity and Mach's work in acoustics and aerodynamics. **99d:01027**
Yamalidou, Maria Molecular ideas in hydrodynamics. (English summary)

Items listed otherwise than by author

Classic papers in shock compression science ★ Classic papers in shock compression science. **99m:76076**

76–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 76–04

Kirkup, Stephen ★ The boundary element method in acoustics. (English summary)

76–05 Experimental papers

Afanas'ev, Ya. D. (*with* Peltier, W. R.) Three-dimensional instability of anticyclonic swirling flow in rotating fluid: laboratory experiments and related theoretical predictions. (English summary)
Ammi, Madani *see* **Le Pennec, Thierry; et al.**
Arneodo, A. (*with* Manneville, S.; Muzy, J. F.; Roux, S. G.) Experimental evidence for anomalous scale dependent cascading process in turbulent velocity statistics. (English summary)
Barnes, T. C. D. *see* **Stansby, P. K.; et al.**
Billant, Paul (*with* Chomaz, Jean-Marc; Huerre, Patrick) Experimental study of vortex breakdown in swirling jets. (English summary)
Bubnov, B. M. (*with* Linden, Paul F.) Diffusion stratification in a rotating linearly-stratified fluid. (Russian. Russian summary)
Cenedese, C. (*with* Linden, Paul F.) Cyclone and anticyclone formation in a rotating stratified fluid over a sloping bottom. (English summary)
Chang, Hsueh-Chia *see* **Veretennikov, Igor; et al.**
Chegini, A. *see* **Stansby, P. K.; et al.**
Chomaz, Jean-Marc *see* **Billant, Paul; et al.**
Egbers, C. *see* **Wulf, P.; et al.**
Flekkøy, Eirik G. *see* **Le Pennec, Thierry; et al.**
Gauthier, Georges (*with* Gondret, P.; Rabaud, M.) Axisymmetric propagating vortices in the flow between a stationary and a rotating disk enclosed by a cylinder. (English summary)
Glezer, Ari *see* **Wiltse, John M.**
Gondret, P. *see* **Gauthier, Georges; et al.**
Hansen, A. E. *see* **Tabeling, P.; et al., (99d:00014)**
Huerre, Patrick *see* **Billant, Paul; et al.**
Hunt, M. L. *see* **Zenit, R.**
Indeikina, Alexandra *see* **Veretennikov, Igor; et al.**
Jiang, Lei[2] (*with* Perlin, Marc; Schultz, William W.) Period tripling and energy dissipation of breaking standing waves. (English summary) **99f:76002**
Le Pennec, Thierry (*with* Måløy, Knut Jørgen; Flekkøy, Eirik G.; Messager, Jean Claude; Ammi, Madani) Silo hiccups: dynamic effects of dilatancy in granular flow. (English summary)
Linden, Paul F. *see* **Bubnov, B. M.** *and* **Cenedese, C.**
Måløy, Knut Jørgen *see* **Le Pennec, Thierry; et al.**
Manneville, S. *see* **Arneodo, A.; et al.**
Messager, Jean Claude *see* **Le Pennec, Thierry; et al.**
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Neuendorf, R. (*with* Wygnanski, I.) On a turbulent wall jet flowing over a circular cylinder. (English summary)
(Nitsche, Ludwig C.) *see* **Zenit, R.**
Paret, J. *see* **Tabeling, P.; et al., (99d:00014)**
Peltier, W. R. *see* **Afanas'ev, Ya. D.**
Perlin, Marc *see* **Jiang, Lei[2]; et al., 99f:76002**
Rabaud, M. *see* **Gauthier, Georges; et al.**
Rath, H. J. *see* **Wulf, P.; et al.**
Roux, S. G. *see* **Arneodo, A.; et al.**
Schultz, William W. *see* **Jiang, Lei[2]; et al., 99f:76002**
Stansby, P. K. (*with* Chegini, A.; Barnes, T. C. D.) The initial stages of dam-break flow. (English summary)
— (*with* Chegini, A.; Barnes, T. C. D.) The initial stages of dam-break flow. (English summary)
Tabeling, P. (*with* Hansen, A. E.; Paret, J.) Forced and decaying 2D turbulence: experimental study. (English summary) (*see* **99d:00014**)
Veretennikov, Igor (*with* Indeikina, Alexandra; Chang, Hsueh-Chia) Front dynamics and fingering of a driven contact line. (English summary)
Wiltse, John M. (*with* Glezer, Ari) Direct excitation of small-scale motions in free shear flows. (English summary)
Wulf, P. (*with* Egbers, C.; Rath, H. J.) Routes to chaos in wide-gap spherical Couette flow. (English summary)
Wygnanski, I. *see* **Neuendorf, R.**
Zenit, R. (*with* Hunt, M. L.) The impulsive motion of a liquid resulting from a particle collision. (English summary)

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Alekseenko, S. V. (*with* Kuibin, P. A.; Okulov, V. L.; Shtork, S. I.) Helical vortices in swirl flow. (English summary) **99m:76034**
Anselmet, F. *see* **Danaila, L.; et al.**

Armi, L. *see* **Pawlak, Geno Ronald**
Baier, Gretchen (*with* Graham, Michael D.) Two-fluid Taylor-Couette flow: experiments and linear theory for immiscible liquids between corotating cylinders. (English summary) **99g:76052**
Baines, Peter G. *see* **Lane-Serff, Gregory F., 99b:86001**
Barenblatt, G. I. (*with* Chorin, Alexandre J.) Scaling of the intermediate region in wall-bounded turbulence: the power law. Comment on: "Log laws or power laws: the scaling in the overlap region" [Phys. Fluids **9** (1997), no. 7, 2094–2100; MR 98d:76075] by M. V. Zagarola, A. E. Perry and A. J. Smits.
— *see also* **Smits, Alexander J.**
Beckers, Marcel *see* **Schmidt, M. R.; et al., 99g:76022**
Ben-Dor, G. (*with* Levy, Avi; Sorek, S.) Waves propagation in saturated rigid porous media—numerical simulation and comparison with experiments. (English summary) **99g:76100**
Ben Hadid, H. *see* **Juel, A.; et al., 99j:76137**
Brancher, J. P. *see* **Genevaux, J.-M.; et al., 99c:73059**
Chai, X.-J. *see* **Genevaux, J.-M.; et al., 99c:73059**
Chen, Ching-Yao *see* **Petitjeans, Philippe; et al.**
Chorin, Alexandre J. *see* **Barenblatt, G. I.** *and* **Smits, Alexander J.**
Cohen, Jacob *see* **Malkiel, Edwin; et al., 99k:76054**
Dalrymple, Robert A. *see* **Li, Li, 99g:76057**
Danaila, L. (*with* Le Gal, P.; Anselmet, F.; Plaza, F.; Pinton, J. F.) Some new features of the passive scalar mixing in a turbulent flow. (English summary)
Dietz, A. J. Local boundary-layer receptivity to a convected free-stream disturbance. (English summary) **99j:76029**
Egermann, P. *see* **Orlandi, P.; et al., 99h:76015**
Fernando, Harindra J. S. (*with* Hunt, J. C. R.) Turbulence, waves and mixing at shear-free density interfaces. I. A theoretical model. (English summary) **99i:76071a**
— *see also* **McGrath, J. L.; et al., 99i:76071b**
Finnigan, T. D. (*with* Ivey, G. N.) Submaximal exchange between a convectively forced basin and a large reservoir. (English summary) **99j:76041**
Fischer, B. (*with* Friedrich, Jochen; Kupfer, C.; Müller, Georg; Vizman, D.) Experimental and numerical analysis of the influence of a rotating magnetic field on convection in Rayleigh-Bénard configurations. (English summary) (*see* **99k:76007**)
Friedrich, Jochen *see* **Fischer, B.; et al., (99k:76007)**
Genevaux, J.-M. (*with* Brancher, J. P.; Chai, X.-J.) Gravity effects on the coupled frequencies of a 2D fluid-structure problem with a free surface. (English summary) **99c:73059**
Gollub, J. P. *see* **Kudrolli, A.; et al., 99i:76015** *and* **Liu, Jun[3], (99m:76003)**
Goodridge, Christopher L. *see* **Hogrefe, J. Errett; et al., (99h:00031)**
Graham, Michael D. *see* **Baier, Gretchen, 99g:76052**
Grue, John (*with* Jensen, Atle; Rusås, Per-Olav; Sveen, J. Kristian) Properties of large-amplitude internal waves. (English summary)
Harari, Isaac A variational formulation for partitioned exterior problems. (*see* **99h:65004**)
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Henry, Daniel *see* **Juel, A.; et al., 99j:76137**
Hentschel, H. George E. *see* **Hogrefe, J. Errett; et al., (99h:00031)**
Hogrefe, J. Errett (*with* Peffley, Nicholas L.; Goodridge, Christopher L.; Shi, William T.; Hentschel, H. George E.; Lathrop, Daniel P.) Power-law singularities in gravity-capillary waves. (English summary) (*see* **99h:00031**)
Hopfinger, E. J. *see* **Orlandi, P.; et al., 99h:76015**
Hunt, J. C. R. *see* **Fernando, Harindra J. S., 99i:76071a** *and* **McGrath, J. L.; et al., 99i:76071b**
Ivey, G. N. *see* **Jacobs, Pieter, 99f:86003** *and* **Finnigan, T. D., 99j:76041**
Jacobs, Pieter (*with* Ivey, G. N.) The influence of rotation on shelf convection. (English summary) **99f:86003**
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Joseph, Daniel D. Cavitation and the state of stress in a flowing liquid. (English summary) **99c:76002**
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Kartashova, E. A. On large-scale dynamics of weakly nonlinear wavesystems. (English summary) (*see* **99m:76003**)
Kudrolli, A. (*with* Pier, Benoît; Gollub, J. P.) Superlattice patterns in surface waves. (English summary) **99i:76015**
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Lane-Serff, Gregory F. (*with* Baines, Peter G.) Eddy formation by dense flows on slopes in a rotating fluid. (English summary) **99b:86001**
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Lauster, M. *see* **Neumaier, M.; et al., 99b:76004**
Le Gal, P. *see* **Danaila, L.; et al.**
Levinskiĭ, V. B. *see* **Malkiel, Edwin; et al., 99k:76054**
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Li, Li (*with* Dalrymple, Robert A.) Instabilities of the undertow. (English summary) **99g:76057**
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Linssen, A. H. *see* **Trieling, R. R.; et al., 99a:76029**
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Liu, Jun[3] (*with* Gollub, J. P.) Nonlinear dynamics of film flows: solitary wave interactions. (English summary) (*see* **99m:76003**)
Lowson, M. V. *see* **Riley, A. J., 99g:76067**
Macfarlane, I. (*with* Joubert, P. N.; Nickels, T. B.) Secondary flows and developing, turbulent boundary layers in a rotating duct. (English summary)
Malkiel, Edwin (*with* Levinskiĭ, V. B.; Cohen, Jacob) The evolution of a localized vortex disturbance in external shear flows. II. Comparison with experiments in rotating shear flows. (English summary) **99k:76054**
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McGrath, J. L. (*with* Fernando, Harindra J. S.; Hunt, J. C. R.) Turbulence, waves and mixing at shear-free density interfaces. II. Laboratory experiments. (English summary) **99i:76071b**
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Rusås, Per-Olav *see* **Grue, John; et al.**
Schmidt, M. R. (*with* Beckers, Marcel; Nielsen, A. H.; Rasmussen, Jens Juul; van Heijst, GertJan F.) On the interaction between two oppositely signed, shielded, monopolar vortices. (English summary) **99g:76022**
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Shtork, S. I. *see* **Alekseenko, S. V.; et al., 99m:76034**
Smits, Alexander J. (*with* Zagarola, M. V.) Response to: "Scaling of the intermediate region in wall-bounded turbulence: the power law. Comment on: 'Log laws or power laws: the scaling in the overlap region'" [Phys. Fluids **10** (1998), no. 4, 1043–1044]; by G. I. Barenblatt and A. J. Chorin.
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Snyder, Don (*with* Tait, Stephen) A flow-front instability in viscous gravity currents. (English summary) **99f:76055**
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Sutherland, Bruce R. (*with* Linden, Paul F.) Internal wave excitation from stratified flow over a thin barrier. (English summary) **99i:76035**
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School:
Computational Physics ★ Computational physics. **99f:00012**
Physics of Dry Granular Media ★ Physics of dry granular media. **99e:73003**
Self-sustaining mechanisms of wall turbulence ★ Self-sustaining mechanisms of wall turbulence. **99d:76046**
Semi-analytic methods for the Navier-Stokes equations ★ Semi-analytic methods for the Navier-Stokes equations. **99k:00037**
Seminar:
Continuum Mechanics ★ Proceedings of the Seminar on Continuum Mechanics. **99k:00035**
Session:
Inverse Problems ★ Inverse problems, tomography, and image processing. **99a:00030**
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Works of Bose, Satyendra Nath ★ Proceedings of International Symposium on Mathematical Physics with Special Sessions on Bose's Works. Part I. **99b:00016**
— ★ Proceedings of International Symposium on Mathematical Physics with Special Sessions on Bose's Works. Part II. **99b:00017**
Stuttgart ★ Boundary element topics. **99e:00017**
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— ★ Proceedings of International Symposium on Mathematical Physics with Special Sessions on Bose's Works. Part II. **99b:00017**
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Theory of the Navier-Stokes equations ★ Theory of the Navier-Stokes equations. **99c:35002**
Tsukuba ★ Recent topics on mathematical theory of viscous incompressible fluid. **99a:35005**
Varna ★ Large-scale scientific computations of engineering and environmental problems. **99m:65006**
Workshop:
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Applied and Numerical Mathematics ★ Applied and computational topics in partial differential equations. **99k:65002**
Chaos, Kinetics and Nonlinear Dynamics in Fluids and Plasmas ★ Chaos, kinetics and nonlinear dynamics in fluids and plasmas. **99d:00014**
Large-scale Scientific Computations ★ Large-scale scientific computations of engineering and environmental problems. **99m:65006**
Modelling and Computation for Applications in Mathematics, Science, and Engineering ★ Modelling and computation for applications in mathematics, science, and engineering. **99k:00033**
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76Axx Foundations, constitutive equations, rheology

76A02 Foundations of fluid mechanics

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Fife, Paul C. (*with* Wang, Xiao Ping[1]) Periodic structures in a van der Waals fluid. (English summary) **99c:76091**
Germain, Paul Functional concepts in continuum mechanics. (English and Italian summaries) **99j:73003**
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Khusnutdinov, N. R. (*with* Yul′met′ev, R. M.) The spectrum of the non-Markovity parameter for hydrodynamic systems. (Russian. English and Russian summaries) **99j:82052**
Müller, Ingo (*with* Ruggeri, Tommaso) ★ Rational extended thermodynamics. (English summary) **99h:80001**
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76A05 Non-Newtonian fluids

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Baker, Donna (*with* Chiera, C.; Connell, H. J.; Shepherd, J. J.) Helical flow of a Carreau fluid between coaxial cylinders. (*see* **99g:00035**)
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— *see also* **Errata: "On the existence and uniqueness of a solution for second- or third-grade fluids", 99a:76003b**

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Fuchs, Martin[2] (*with* Serëgin, G. A.) Regularity results for the quasi-static Bingham variational inequality in dimensions two and three. (English summary) **99f:76006**
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Joseph, Daniel D. Cavitation and the state of stress in a flowing liquid. (English summary) **99c:76002**
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Wardi, S. A convergence result for an iterative method for the equations of a stationary quasi-Newtonian flow with temperature dependent viscosity. (English and French summaries) **99g:76007**
White, Andrew M. (*with* Connell, H. J.; May, Robert L.; Shepherd, J. J.) Annular time-dependent flow of a Bingham fluid. (*see* **99g:00035**)
Yürüsoy, Muhammet (*with* Pakdemirli, Mehmet) Group classification of a non-Newtonian fluid model using classical approach and equivalence transformations. (English summary) **99i:76005**

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"On the existence and uniqueness of a solution for second- or third-grade fluids" Erratum: "On the existence and uniqueness of a solution for second- or third-grade fluids" [C. R. Acad. Sci. Paris Sér. I Math. **324** (1997), no. 5, 605–610; MR 99a:76003a] by D. Bresch and J. Lemoine. (French) **99a:76003b**

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Bao, Wei-zhu (*with* Barrett, John W.) A priori and a posteriori error bounds for a nonconforming linear finite element approximation of a non-Newtonian flow. (English and French summaries) **99i:76086**
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Chen, Jiuhua (*with* Han, Weimin; Huang, Hong-ci) On the Kačanov method for a quasi-Newtonian flow problem. (English summary) **99m:65118**
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76A10 Viscoelastic fluids

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Boulanger, Ph. Energy flux for damped inhomogeneous plane waves in viscoelastic fluids. (English summary) **99e:76005**
Brener, Efim A. (*with* Marchenko, V. I.) Nonlinear theory of dislocations in smectic crystals: an exact solution. (English summary)
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— On the solvability of a nonstationary problem of the dynamics of an incompressible viscoelastic Kelvin-Voigt fluid of nonzero grade. (Russian) **99e:76006**
— *see also* **Sviridyuk, G. A., 99f:76012**
Sviridyuk, G. A. (*with* Sukachëva, T. G.) On the solvability of a nonstationary problem in the dynamics of an incompressible viscoelastic fluid. (Russian. Russian summary) **99f:76012**
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Thompson, Mark (*with* Rubio, Obidio) Hausdorff dimension of functionally invariant sets for rotating internal weakly viscoelastic fluids. **99k:76011**
Videman, Juha H. *see* **Matušů-Nečasová, Šárka; et al., 99m:76004**

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Entov, V. M. *see* **Gorodtsov, V. A., 99b:76085**
Forest, M. Gregory (*with* Wang, Qi^2) The role of microstructure in taming the Rayleigh capillary instability of cylindrical jets. (English summary) **99k:76063**
Frehse, Jens (*with* Málek, Josef; Steinhauer, Mark) An existence result for fluids with shear dependent viscosity—steady flows. **99g:76006**
Gorodtsov, V. A. (*with* Entov, V. M.) Instability of displacement fronts of non-Newtonian fluids in a Hele-Shaw cell. (Russian. Russian summary) **99b:76085**
Graham, Michael D. Effect of axial flow on viscoelastic Taylor-Couette instability. (English summary) **99a:76061**
Kupferman, Raz Simulation of viscoelastic fluids: Couette-Taylor flow. (English summary) **99h:76067**
Li, Nian (*with* Steiner, J. M.; Murphy, J. O.) Overstability of a viscoelastic fluid layer heated from below. (*see* **99g:00035**)
Málek, Josef *see* **Frehse, Jens; et al., 99g:76006**
Murphy, J. O. *see* **Li, Nian; et al., (99g:00035)**
Owens, Robert G. A posteriori error estimates for spectral element solutions to viscoelastic flow problems. (English summary) **99m:76082**
Růžička, Michael A note on steady flow of fluids with shear dependent viscosity. **99g:76005**
Steiner, J. M. *see* **Li, Nian; et al., (99g:00035)**
Steinhauer, Mark *see* **Frehse, Jens; et al., 99g:76006**
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76A15 Liquid crystals [see also 82D30]

Aèro, È. L. (*with* Vakulenko, S. A.) Kinematics of nonlinear oriented deformations in nematic liquid crystals in a homogeneous magnetic field. (Russian. Russian summary) **99c:76004**
Barclay, G. J. (*with* Stewart, I. W.) The behaviour of perturbations to travelling waves arising in nematic liquid crystals. (English summary) **99i:76007**
Ben Amar, Martine (*with* Patrício da Silva, Pedro) Can one hear the shape of a smectic drum? (English summary) **99f:76013**
Biscari, Paolo (*with* Guidone Peroli, Giovanna) A hierarchy of defects in biaxial nematics. (English summary) **99j:76003**
Calderer, M. Carme Dissipation, surface energy and defects. (English summary) **99i:76008**
— (*with* Liu, Chun; Voss, Karl) Radial configurations of smectic A materials and focal conics. (English summary) **99j:76004**
Durand, Georges E. (*with* Virga, Epifanio G.) Hydrodynamic model for surface nematic viscosity. (English summary) **99m:76005**
E, Weinan Nonlinear continuum theory of smectic-A liquid crystals. **99e:76007**
El-Dib, Yusry O. *see* **Moatimid, Galal M., 99f:76015**
Eringen, A. Cemal A unified continuum theory of electrodynamics of liquid crystals. (English summary) **99k:76012**
Faetti, Sandro (*with* Virga, Epifanio G.) On a curvature surface energy for nematic liquid crystals. **99d:76004**
Guidone Peroli, Giovanna (*with* Virga, Epifanio G.) Modelling the capillary locking of point defects in nematic liquid crystals. (English summary) **99i:76009**
— (*with* Virga, Epifanio G.) Dynamics of point defects in nematic liquid crystals. (English summary) **99g:76009**
— *see also* **Biscari, Paolo, 99j:76003**
Leslie, F. M. *see* **McKay, G., 99f:76014** *and* **McIntosh, J. G.; et al., 99m:76006**
Liu, Chun *see* **Calderer, M. Carme; et al., 99j:76004**
McIntosh, J. G. (*with* Leslie, F. M.; Sloan, D. M.) Stability for shearing flow of nematic liquid crystals. (English summary) **99m:76006**
McKay, G. (*with* Leslie, F. M.) A continuum theory for smectic liquid crystals allowing layer dilation and compression. (English summary) **99f:76014**
Moatimid, Galal M. (*with* El-Dib, Yusry O.) Effects of an external periodic body force on the interfacial stability of a nematic layer. (English summary) **99f:76015**
Pan, Xing Bin (*with* Yi, Yingfei) A variational problem of liquid crystals. (English summary) **99f:76016**
Patrício da Silva, Pedro *see* **Ben Amar, Martine, 99f:76013**
Pesch, Werner *see* **Plaut, Emmanuel**
Plaut, Emmanuel (*with* Pesch, Werner) Extended weakly nonlinear theory of planar nematic convection. (English summary)
Sloan, D. M. *see* **McIntosh, J. G.; et al., 99m:76006**
Sonnet, André M. (*with* Virga, Epifanio G.) Dynamics of nematic loop disclinations. (English summary) **99k:76013**
Stewart, I. W. Stability of traveling waves in smectic-*C* liquid crystals. (English summary) **99a:76009**
— *see also* **Barclay, G. J., 99i:76007**
Vakulenko, S. A. *see* **Aèro, È. L., 99c:76004**
Virga, Epifanio G. *see* **Faetti, Sandro, 99d:76004**; **Guidone Peroli, Giovanna, 99g:76009**; **99i:76009**; **Sonnet, André M., 99k:76013** *and* **Durand, Georges E., 99m:76005**
Voss, Karl *see* **Calderer, M. Carme; et al., 99j:76004**
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Davis, Timothy A. (*with* Gartland, Eugene C., Jr.) Finite element analysis of the Landau-de Gennes minimization problem for liquid crystals. (English summary) **99c:65198**
Evans, Denis J. *see* **Sarman, Sten S.; et al., 99h:82073**
Ferrarese, Giorgio (*with* Stazi, L.) Superfluids and Cosserat continua. (Italian. English summary) **99f:76005**
Gartland, Eugene C., Jr. *see* **Davis, Timothy A., 99c:65198**
Sarman, Sten S. (*with* Evans, Denis J.; Cummings, Peter T.) Recent developments in non-Newtonian molecular dynamics. (English summary) **99h:82073**
Stazi, L. *see* **Ferrarese, Giorgio, 99f:76005**

76A99 None of the above, but in this section

Avron, J. E. Odd viscosity. (English summary) **99h:76008**
Berselli, Luigi C. (*with* Cimatti, G.) A theorem of existence for the equations of the Winslow's effect. (Italian summary) **99d:76005**
Brunn, P. O. (*with* Ryssel, E.) Steady non-swirling axisymmetric flows: flow classification and rheological consequences. (English summary) **99i:76010**
Cimatti, G. *see* **Berselli, Luigi C., 99d:76005**
Fan, Xi-Jun (*with* Phan-Thien, Nhan; Zheng, Rong) Completed double layer boundary element method for periodic suspensions. (English summary) **99c:76005**
Frankel, I. *see* **Puyesky, I., 99f:76017**
Guillén González, Francisco M. Existence and regularity of weak solutions for pseudoplastic or dilatant fluids with variable density. (Spanish) (*see* **99d:00018**)
Herrmann, H. J. (*with* Luding, S.) Modeling granular media on the computer. (English summary)
Luding, S. *see* **Herrmann, H. J.**
Ma, Hongru *see* **Sheng, Ping, (99c:73001)**
Mujaković, Nermina One-dimensional flow of a compressible viscous micropolar fluid: a local existence theorem. (English summary) **99k:76014**
Nazarov, A. N. Fundamentals of the modeling of friction and injection processes in the motion of avalanche-type flows. (Russian. Russian summary) **99d:76006**
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Puyesky, I. (*with* Frankel, I.) The motion of a dipolar spherical particle in homogeneous shear and time-periodic fields. (English summary) **99f:76017**
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Aèro, È. L. (*with* Bessonov, N. M.; Bulygin, A. N.) Dynamics of a momentum anisotropic fluid. (Russian. Russian summary) **99c:76033**
Aganović, Ibrahim (*with* Tutek, Zvonimir) Nonstationary micropolar fluid flow through porous medium. **99b:76082**
Ahmed, S. M. Influence of gravity on the propagation of waves in granular medium. (English summary) **99k:73067**
Alam, Meheboob (*with* Nott, Prabhu R.) Stability of plane Couette flow of a granular material. (English summary) **99i:76062**
Ammi, Madani *see* **Le Pennec, Thierry; et al.**
Anderssen, Robert S. The pragmatics of solving industrial (real-world) inverse problems with exemplification based on the molecular weight distribution problem. (English summary)
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Bouchaud, J. P. (*with* Claudin, P.; Cates, M. E.; Wittmer, J. P.) Models of stress propagation in granular media. (English summary) **99f:73041**
Boutreux, Thomas (*with* Raphaël, Elie; de Gennes, Pierre-Gilles) Surface flows of granular materials: a modified picture for thick avalanches. (English summary) **99h:73035**
Bulygin, A. N. *see* **Aèro, È. L.; et al., 99c:76033**
Caputo, Michele 3-dimensional physically consistent diffusion in anisotropic media with memory. (English and Italian summaries) **99k:76135**
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Dorovskiĭ, V. N. The hydrodynamics of particles suspended in a melt with the self-consistent concentration field of an admixture. I. (English summary) **99c:76110a**
— The hydrodynamics of particles suspended in a melt with the self-consistent concentration field of an admixture. II. (English summary) **99c:76110b**
Drew, Donald A. (*with* Mandyam, H.) Effective media theory using nearest neighbor pair distributions. **99i:73004**
— (*with* Passman, Stephen L.) ★ Theory of multicomponent fluids. (English summary) **99k:76143**
Duran, Jacques Static and dynamic arching effect in granular materials. (English summary) (*see* **99e:73003**)
Eringen, A. Cemal A mixture theory of electromagnetism and superconductivity. (English summary) **99f:78006**
Flekkøy, Eirik G. *see* **Le Pennec, Thierry; et al.**
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Goddard, Joe D. Continuum modeling of granular assemblies: quasi-static dilatancy and yield. (English summary) **99e:73050**
— (*with* Didwania, A. K.) Computations of dilatancy and yield surfaces for assemblies of rigid frictional spheres. (English summary) **99a:73068**
Gogaev, K. A. *see* **Panteleyev, A. D., 99k:73069**
Goldhirsch, Isaac Kinetics and dynamics of rapid granular flows. (English summary) **99g:73057**
— *see also* **Sela, N., 99b:76078**
Hayes, Brian T. (*with* Schaeffer, David G.) Plane shear waves under a periodic boundary disturbance in a saturated granular medium. (English summary) **99g:73052**
(Herrmann, H. J.) *see* **Physics of dry granular media, 99e:73003**
(Hovi, J.-P.) *see* **Physics of dry granular media, 99e:73003**
Jenkins, J. T. Kinetic theory for nearly elastic spheres. (English summary) **99f:73020**
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Jeulin, D. *see* **Quenec'h, J. L.; et al., (99f:60005)**
Ladyzhenskaya, O. A. (*with* Serëgin, G. A.) On the smoothness of systems describing flows of generalized Newtonian fluids, and on the estimation of the dimensions of their attractors. (Russian. Russian summary) **99g:35107**
Le Pennec, Thierry (*with* Måløy, Knut Jørgen; Flekkøy, Eirik G.; Messager, Jean Claude; Ammi, Madani) Silo hiccups: dynamic effects of dilatancy in granular flow. (English summary)
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Nedoma, Jiří On a coupled Stefan-like problem in thermoviscoplastic rheology. (English summary) **99f:73016**
Nott, Prabhu R. *see* **Alam, Meheboob, 99i:76062**
Panfilov, M. B. (*with* Panfilova, I. V.) Averaged model with capillary nonequilibrium effects for two-phase flow through a highly heterogeneous porous medium. (Russian. Russian summary)
Panfilova, I. V. *see* **Panfilov, M. B.**
Panteleyev, A. D. (*with* Gogaev, K. A.) Mathematical simulation and identification of the material forming process under extrusion. (Ukrainian summary) **99k:73069**
Passman, Stephen L. *see* **Drew, Donald A., 99k:76143**
Pöschel, Thorsten (*with* Schwager, Thomas) Is there a critical acceleration for the onset of convection? (English summary) **99e:73056**
Prigozhin, Leonid Solution of thin film magnetization problems in type-II superconductivity. (English summary) **99e:78009**
Quenec'h, J. L. (*with* Jeulin, D.; Coster, M.; Chermant, J. L.) Approach of liquid phase sintering process by probabilistic models. (English summary) (*see* **99f:60005**)
Rajchenbach, J. Continuous flows and avalanches of grains. (English summary) (*see* **99e:73003**)
Raphaël, Elie *see* **Boutreux, Thomas; et al., 99h:73035**
Rojas Medar, Marko A. (*with* Boldrini, José Luiz) Magneto-micropolar fluid motion: existence of weak solutions. (English summary) **99k:76154**
Rylov, Yu. A. Spin and wave function as attributes of ideal fluid. (English summary) **99j:76149**
Savage, S. B. Modeling and granular material boundary value problems. (English summary) **99e:73028**
Schaeffer, David G. *see* **Hayes, Brian T., 99g:73052**
Schlechtendahl, E. G. Averaging invariance and its consequences for fluid dynamics. (English and German summaries) **99k:73015**
Schwager, Thomas *see* **Pöschel, Thorsten, 99e:73056**
Sela, N. (*with* Goldhirsch, Isaac) Hydrodynamic equations for rapid flows of smooth inelastic spheres, to Burnett order. (English summary) **99b:76078**
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Soula, M. (*with* Chevalier, Y.) La dérivée fractionnaire en rhéologie des polymères. Application aux comportements élastiques et viscoélastiques linéaires et non linéaires des élastomères. (English and French summaries) [Fractional derivatives in polymer rheology. Application to the linear and nonlinear elastic and viscoelastic behavior of elastomers] **99k:73070**
Tang, Shaoqiang Steady states of some models for van der Waals fluids. (English summary)
Tutek, Zvonimir *see* **Aganović, Ibrahim, 99b:76082**
(Wang, Ren) *see* **IUTAM Symposium: Rheology of Bodies with Defects, 99i:73001**
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Cargèse ★ Physics of dry granular media. **99e:73003**
IUTAM Symposium:
Rheology of Bodies with Defects ★ IUTAM Symposium on Rheology of Bodies with Defects. **99i:73001**
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Physics of Dry Granular Media ★ Physics of dry granular media. **99e:73003**
Physics of dry granular media ★ Physics of dry granular media. **99e:73003**
School:
Physics of Dry Granular Media ★ Physics of dry granular media. **99e:73003**

76Bxx Incompressible inviscid fluids, potential theory

76B05 Airfoil theory

Abzalilov, D. F. (*with* Aksent'ev, L. A.; Il'inskiĭ, N. B.) An inverse boundary value problem for an airfoil with a suction slot. (Russian. Russian summary) **99b:76006**
Aksent'ev, L. A. *see* **Abzalilov, D. F.; et al., 99b:76006**
Bassanini, Piero (*with* Casciola, C. M.; Lancia, M. R.; Piva, R.) A theoretical model for multiply connected wings. (English summary) **99k:76015**
Casciola, C. M. *see* **Bassanini, Piero; et al., 99k:76015**
Hsiao, George C. (*with* Marcozzi, Michael D.) Variational methods for the potential flow past an airfoil. (English summary) **99k:76016**
Il'inskiĭ, N. B. *see* **Abzalilov, D. F.; et al., 99b:76006**
Iosilevskii, G. An asymptotic theory of high-aspect-ratio non-planar curved wings in steady incompressible flow. (English summary) **99c:76006**
Junghanns, Peter *see* **Matveev, A. F., 99g:76010**
Lancia, M. R. *see* **Bassanini, Piero; et al., 99k:76015**
Lupu, Mircea (*with* Scheiber, Ernest) On the integral equation for airfoil design in the case of inverse fluid jet problem. (English summary) **99i:76011**
Marcozzi, Michael D. *see* **Hsiao, George C., 99k:76016**
Matveev, A. F. (*with* Junghanns, Peter) On the construction of an approximate solution of a nonlinear integral equation of permeable profile. (Russian. Russian summary) **99g:76010**
Piva, R. *see* **Bassanini, Piero; et al., 99k:76015**
Scheiber, Ernest *see* **Lupu, Mircea, 99i:76011**

Tkacheva, L. A. Hydrodynamic characteristics of a wing in a stratified fluid near a screen. (Russian. Russian summary) **99c:76007**
Ushijima, Teruo (*with* Yokomatsu, Daisaku) Determination of the leading terms in conformal mapping of wings by means of finite element calculations. (Japanese) (*see* **99i:00028**)
Yokomatsu, Daisaku *see* **Ushijima, Teruo**, (**99i:00028**)

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Denny, Andrew G. *see* **Wu, Jie-Zhi; et al.**, **99i:76041**
Elizarov, A. M. (*with* Il'inskiĭ, N. B.; Potashev, A. V.) ★ Mathematical methods of airfoil design. (English summary) **99d:76054**
Fan, Meng[2] *see* **Wu, Jie-Zhi; et al.**, **99i:76041**
(Fokin, A.) *see* **Elizarov, A. M.; et al.**, **99d:76054**
Gasbarri, P. *see* **Santini, Paolo Maria**
Heinkenschloss, Matthias *see* **Shenoy, Ajit R.; et al.**, (**99k:76005**)
Hinder, R. (*with* Meister, Erhard) Integral equations arising from instationary flows around thin wings. **99i:76024**
Il'inskiĭ, N. B. *see* **Elizarov, A. M.; et al.**, **99d:76054**
Kayumov, I. R. On an extremal problem in airfoil theory. (Russian)
Lu, Xi-Yun *see* **Wu, Jie-Zhi; et al.**, **99i:76041**
Maĭlybaev, A. A. (*with* Seĭranyan, A. P.) Aeroelastic stability of a wing with bracing struts (Keldysh problem). (Russian. Russian summary) **99d:73070**
Meister, Erhard *see* **Hinder, R.**, **99i:76024**
Potashev, A. V. *see* **Elizarov, A. M.; et al.**, **99d:76054**
Santini, Paolo Maria (*with* Gasbarri, P.) Lifting surface in subsonic unsteady regime. (English and Italian summaries)
Scuderi, L. A collocation method for the generalized airfoil equation for an airfoil with a flap. (English summary) **99g:65100**
Seĭranyan, A. P. *see* **Maĭlybaev, A. A.**, **99d:73070**
Shenoy, Ajit R. (*with* Heinkenschloss, Matthias; Cliff, Eugene M.) Airfoil design by an all-at-once method. (English summary) (*see* **99k:76005**)
Strating, Patrick (*with* van Buuren, René) Fast computation of stationary inviscid flow around an airfoil. (English summary)
Wu, Jain-Ming *see* **Wu, Jie-Zhi; et al.**, **99i:76041**
Wu, Jie-Zhi (*with* Lu, Xi-Yun; Denny, Andrew G.; Fan, Meng[2]; Wu, Jain-Ming) Post-stall flow control on an airfoil by local unsteady forcing. (English summary) **99i:76041**

76B10 Jets and cavities, cavitation, free-streamline theory, water-entry problems, hydrofoil theory, sloshing

Asavanant, J. (*with* Vanden-Broeck, Jean-Marc) Nonlinear free-surface flows emerging from vessels. (English summary) **99i:76012**
Capodanno, Pierre On the computation of the second variation in the problem of the stability of the steady motion of a rigid body containing fluid. (Russian. Russian summary) **99c:76008**
Cooker, M. J. Potential flow for a steady jet in a wedge. (English summary) **99m:76007**
Gorlov, S. I. A linear problem of the motion of a contour under the free surface of a fluid of finite depth. (Russian. Russian summary) **99m:76008**
Green, M. R. Instabilities arising due to the interaction of a circular jet with a bounding rigid circular shell. (English summary) **99m:76009**
Harkin, Anthony (*with* Nadim, Ali; Kaper, Tasso J.) On acoustic cavitation of slightly subcritical bubbles. (English summary) **99k:76017**
Hureau, J. (*with* Weber, Regine) Impinging free jets of ideal fluid. (English summary) **99f:76018**
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Khabakhpasheva, T. I. *see* **Korobkin, A. A.**, **99b:76007**
Korobkin, A. A. (*with* Khabakhpasheva, T. I.) Approach of a shallow rigid body to the interface of two media. (Russian) **99b:76007**
Lukovskiĭ, I. A. On the theory of nonlinear oscillations of a bounded volume of low-viscosity fluid. (Ukrainian. English summary) **99k:76018**
Lupu, Mircea L'étude de l'équation intégrale singuliére dans le cas de quelques problèmes inverses des jets fluides. (English summary) [Study of a singular integral equation in the case of some inverse problems of fluid jets]
— (*with* Scheiber, Ernest) Study of some inverse limit problems in the case of incompressible fluid jets. (Romanian. English and Romanian summaries) **99k:76019**
Martin, Paul Andrew On the added mass of rippled discs. (English summary) **99f:76020**
— On potential flow past wrinkled discs. (English summary) **99f:76019**
Nadim, Ali *see* **Harkin, Anthony; et al.**, **99k:76017**
Orellana, Oscar *see* **Papageorgiou, Demetrios T.**, **99g:76011**
Papageorgiou, Demetrios T. (*with* Orellana, Oscar) Study of cylindrical jet breakup using one-dimensional approximations of the Euler equations. (English summary) **99g:76011**
Pugh, M. C. (*with* Shelley, Michael J.) Singularity formation in thin jets with surface tension. (English summary) **99d:76007**
Rokhlin, D. B. Impact on a planar body floating on the surface of a thin layer of an ideal incompressible fluid. (Russian. Russian summary) **99k:76020**
Scheiber, Ernest *see* **Lupu, Mircea**, **99k:76019**
Shelley, Michael J. *see* **Pugh, M. C.**, **99d:76007**
Simakov, S. T. *see* **Tuck, E. O.**, **99m:76011**
Sturova, I. V. A two-dimensional problem of the uniform flow of a two-layer fluid of finite depth around a circular cylinder. (Russian. Russian summary) **99m:76010**
Torelli, Alessandro On a new weak formulation for the jet free boundary problem with gravity. (English summary) **99j:76006**
Tuck, E. O. (*with* Vanden-Broeck, Jean-Marc) Ploughing flows. (English summary) **99g:76012**
— (*with* Simakov, S. T.) Splash formation at the nose of a smoothly curved body in a stream. (English summary) **99m:76011**
Vanden-Broeck, Jean-Marc A model for the free-surface flow due to a submerged source in water of infinite depth. (English summary) **99a:76010**
— *see also* **Tuck, E. O.**, **99g:76012** *and* **Asavanant, J.**, **99i:76012**
Weber, Regine (*with* Hureau, J.) Impact of an ideal fluid jet on a curved wall: the inverse problem. (English summary)
— *see also* **Hureau, J.**, **99f:76018**
Xue, Ming[2] (*with* Yue, Dick K. P.) Nonlinear free-surface flow due to an impulsively started submerged point sink. (English summary) **99b:76008**
Yue, Dick K. P. *see* **Xue, Ming[2]**, **99b:76008**

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Barakhnin, V. B. (*with* Khakimzyanov, G. S.) Numerical modelling of fluid oscillations caused by an instantaneous slope of the reservoir base. (English summary)
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Yoshinaga, Takao Oscillatory solitary wave solutions to long and short wave interaction equations. (*see* **99a:00032**)

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Basmat, A. (*with* Ziegler, Franz) Interaction of a plane solitary wave with a rigid vertical cylinder. (English summary)
Bona, Jerry L. (*with* Chen, Min[6]) A Boussinesq system for two-way propagation of nonlinear dispersive waves. (English summary) **99f:76021**
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Chen, Lin[6] Stability and instability of solitary waves for generalized symmetric regularized-long-wave equations. (English summary) **99d:35107**
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— *see also* **Bona, Jerry L., 99f:76021**
Chubarov, L. B. (*with* Fedotova, Z. I.; Shkuropatskiĭ, D. A.) Investigation of computational models of long surface waves in the problem of interaction of a solitary wave with a conic island. (English summary)
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— *see also* **Kaup, D. J.; et al., 99k:35156**
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Umeki, Makoto Faraday surface waves: chaos, solitons, and pattern formation. (Japanese) (*see* **99a:00032**)
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Vakulenko, S. A. (*with* Gordon, P. V.) Propagation and scattering of kinks in a nonhomogeneous nonlinear medium. (Russian. English and Russian summaries) **99f:35182**
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Petrov, A. G. A proof of the instability of the equilibrium position of a ball in a nonhomogeneous potential flow. (Russian) **99k:76032**

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Martin, Paul Andrew On the added mass of rippled discs. (English summary) **99f:76020**

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Clanet, Christophe On large-amplitude pulsating fountains. (English summary) **99c:76016**
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Berning, M. (*with* Rubenchik, A. M.) A weakly nonlinear theory for the dynamical Rayleigh-Taylor instability. (English summary) **99b:76032**
Besse, Christophe (*with* Bruneau, Charles-Henri) Numerical study of elliptic-hyperbolic Davey-Stewartson system: dromions simulation and blow-up. (English summary) **99g:76086**
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Ceniceros, Hector D. (*with* Hou, Thomas Yizhao) Dynamic generation of capillary waves. (English summary) **99m:76012**
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Concus, Paul (*with* Finn, Robert S.) Comments on a paper of J. B. Keller, A. C. King and G. Merchant: "Surface tension" [in *Of fluid mechanics and related matters (La Jolla, CA, 1990)*, 161–168, Scripps Inst. Oceanogr., San Diego, CA, 1991; MR 99d:76029]. **99d:76030**
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Elezgaray, J. Traveling wavelets for the simulation of a Hele-Shaw flow with surface tension. (English summary) **99j:76088**
Finn, Robert S. (*with* Lu, Jianan) Regularity properties of H-graphs. (English summary) **99e:53007**
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Forest, M. Gregory (*with* Wang, Qi[2]) The role of microstructure in taming the Rayleigh capillary instability of cylindrical jets. (English summary) **99k:76063**
Groves, Mark D. Trapped-mode solutions for gravity-capillary water waves in channels of arbitrary cross-section. (English summary) **99b:76009**
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Hou, Thomas Yizhao (*with* Zhang, Pingwen) Growth rates for the linearized motion of 3-D fluid interfaces with surface tension far from equilibrium. (English summary) **99k:76033**
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Jiang, Lei[2] (*with* Lin, Huan-Jay; Schultz, William W.; Perlin, Marc) Unsteady ripple generation on steep gravity-capillary waves. (English summary)
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Schultz, William W. (*with* Vanden-Broeck, Jean-Marc; Jiang, Lei[2]; Perlin, Marc) Highly nonlinear standing water waves with small capillary effect. (English summary) **99f:76028**
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Aleshkov, V. Yu. Unsteady motion of a body under a free surface. (Russian. English and Russian summaries) (*see* **99a:00014**)
Bellamy-Knights, P. G. An image system and surface singularity solutions for potential flow past an elliptical cylinder. (English summary) **99i:76022**
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Eames, Ian (*with* McIntyre, M. E.) On the connection between Stokes drift and Darwin drift. (English summary) **99m:76031**
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Hornberg, A. (*with* Ritter, Stefan) An integral equation method for the flow in an infinite tunnel. (English summary) **99i:76025**
Hou, Thomas Yizhao (*with* Zhang, Pingwen) Growth rates for the linearized motion of 3-D fluid interfaces with surface tension far from equilibrium. (English summary) **99k:76033**
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Schuttelaars, H. M. (*with* de Swart, H. E.) Initial formation of channels and shoals in a short tidal embayment. (English summary)
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Dziri, Raja (*with* Zolésio, Jean-Paul) Dynamical shape control in non-cylindrical hydrodynamics. (English summary) **99k:49087**
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Genevaux, J.-M. (*with* Brancher, J. P.; Chai, X.-J.) Gravity effects on the coupled frequencies of a 2D fluid-structure problem with a free surface. (English summary) **99c:73059**
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Kärkkäinen, Kari T. (*with* Tiihonen, Timo) Free surfaces: shape sensitivity analysis and numerical methods. (English summary) **99k:49091**
Koval′chuk, P. S. (*with* Boyarshina, L. G.) On an approach to the computation of three-dimensional auto-oscillations of a rigid body with a cylindrical cavity partially filled with a liquid. (Russian. English and Ukrainian summaries)
Ludu, A. (*with* Draayer, J. P.) Patterns on liquid surfaces: cnoidal waves, compactons and scaling. (English summary) (*see* **99h:00031**)
Pedrizzetti, Gianni Fluid flow in a tube with an elastic membrane insertion. (English summary) **99h:76099**
Rokhlin, D. B. On the spectral problem for Laplace tidal equations on a surface with an edge. (Russian. English and Russian summaries) **99f:58207**
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Stepanova, U. V. Tides in channels of finite length. (Russian. English and Russian summaries) (*see* **99a:00014**)
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76Cxx Incompressible inviscid fluids, vorticity flows

76C05 Vorticity flows

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Aref, Hassan (*with* Brøns, Morten) On stagnation points and streamline topology in vortex flows. (English summary) **99i:76026**
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Auchmuty, Giles Reconstruction of the velocity from the vorticity in three-dimensional fluid flows. (English summary) **99f:76032**
Bagrets, A. A. (*with* Bagrets, D. A.) Nonintegrability of Hamiltonian systems of vortex dynamics. I. Interaction of three vortex rings. (Russian. English and Russian summaries) **99e:76017**
— (*with* Bagrets, D. A.) Nonintegrability of Hamiltonian systems of vortex dynamics. II. The motion of four point vortices on a sphere. (Russian. English and Russian summaries) **99h:76012**
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Blennerhassett, P. J. (*with* Denier, James P.; Bassom, Andrew P.) Large wavenumber vortices in time-periodic flows. (English summary) **99f:76033**
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Bottaro, Alessandro (*with* Luchini, Paolo) Görtler vortices: are they amenable to local eigenvalue analysis? (English summary) **99j:76019**
Brady, Mark A. (*with* Leonard, A.; Pullin, D. I.) Regularized vortex sheet evolution in three dimensions. (English summary) **99f:76034**
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Caflisch, Russel E. (*with* Hou, Thomas Yizhao; Lowengrub, John) Almost optimal convergence of the point vortex method for vortex sheets using numerical filtering. (English summary) **99m:76035**
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Marušić, Sanja Low concentration limit for a fluid flow through a filter. (English summary) **99h:76026**
Mattheij, Robert M. M. (*with* van de Vorst, G. Alfred L.) Mathematical modelling and numerical simulation of viscous sintering processes. (English summary)
Meijer, H. E. H. *see* **Galaktionov, O. S.; et al., 99i:76037**
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Moffatt, H. Keith (*with* Mak, V.) Corner singularities in three-dimensional Stokes flow. (English summary) (*see* **99h:76002**)
Ol'shanskiĭ, M. A. On the Stokes problem with model boundary conditions. (Russian. Russian summary) **99g:76039**
Padmavathi, B. S. (*with* Raja Sekhar, G. P.; Amaranath, T.) A note on complete general solutions of Stokes equations. (English summary) **99g:76040**
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Poullikkas, Andreas (*with* Karageorghis, Andreas; Georgiou, Georgios C.; Ascough, John) The method of fundamental solutions for Stokes flows with a free surface. (English

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Rangel, R. H. *see* **Coimbra, C. F. M., 99e:76034**
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Amrouche, C. (*with* Bernardi, Christine; Dauge, Monique; Girault, Vivette) Vector potentials in three-dimensional non-smooth domains. (English and French summaries) **99e:35037**
Annenkov, V. A. An ill-posed problem for the Stokes system. (Russian. English and Russian summaries) **99h:35155**
Antontsev, Stanislav N. (*with* Meirmanov, A. M.; Yurinskiĭ, V. V.) Homogenization of Stokes-type equations with variable viscosity. (English summary) **99m:35022**
Barbu, Viorel Feedback control of time dependent Stokes flows. **99f:49044**
Bassom, Andrew P. *see* **Blennerhassett, P. J.; et al., 99f:76033**
Beirão da Veiga, Hugo On the L^2-regularity theorems for a family of Stokes type systems. (English summary) **99g:35099**
Bernardi, Christine *see* **Amrouche, C.; et al., 99e:35037**
Blasco, Jordi *see* **Codina, Ramon, (99d:00018)**
Blennerhassett, P. J. (*with* Denier, James P.; Bassom, Andrew P.) Large wavenumber vortices in time-periodic flows. (English summary) **99f:76033**
Cai, Zhi Qiang (*with* Douglas, Jim, Jr.) Stabilized finite element methods with fast iterative solution algorithms for the Stokes problem. (English summary) **99i:76087**
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Chou, So-Hsiang (*with* Kwak, Do Y.) A covolume method based on rotated bilinears for the generalized Stokes problem. (English summary) **99d:65302**
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Dan, Wakako (*with* Shibata, Yoshihiro) On the L_q–L_r estimates of the Stokes semigroup in a two-dimensional exterior domain. (English summary) **99m:35185**
Dauge, Monique *see* **Amrouche, C.; et al., 99e:35037**
Davis, Anthony M. J. (*with* Stone, Howard A.) Slow translation, rotation or oscillation of a disk in a rotating fluid: effect of a plane wall or another disk. (English summary) **99f:76131**
Denier, James P. *see* **Blennerhassett, P. J.; et al., 99f:76033**
Deuring, Paul L^p-theory for the Stokes system in 3D domains with conical boundary points. (English summary) **99j:35162**
— A stable mixed finite element method on truncated exterior domains. (English and French summaries) **99d:65314**
Ding, Zhong Hai *see* **You, Puhong; et al., 99d:49014**
Douglas, Jim, Jr. *see* **Cai, Zhi Qiang, 99i:76087**
Faria, Luis *see* **Almeida, António; et al., 99d:76072**
Febra, Renato *see* **Almeida, António; et al., 99d:76072**
Feng, Yusheng *see* **Oden, J. Tinsley; et al., 99c:76071**
Fontelos, M. A. (*with* Velázquez, Juan J. L.) A free boundary problem for the Stokes system with contact lines. (English summary) **99j:35235**
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Ghadi, F. (*with* Ruas, V.; Wakrim, M.) A mixed finite element method to solve the Stokes problem in the stream function and vorticity formulation. (English summary) **99m:76078**
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— *see also* **Amrouche, C.; et al., 99e:35037**
González-Burgos, Manuel L^2-regularity of the Stokes problem with Neumann boundary conditions. (Spanish. Spanish summary) **99h:35159**
Grandmont, Céline Existence et unicité de solutions d'un problème de couplage fluide-structure bidimensionnel stationnaire. (English and French summaries) [Existence and uniqueness for a two-dimensional steady-state fluid-structure interaction problem] **99e:73077**
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Heinrichs, Wilhelm Splitting techniques for the unsteady Stokes equations. (English summary) **99d:65292**
Hoffmann, Karl-Heinz[1] (*with* Starovoĭtov, V. N.) The Stefan problem with surface tension and convection in Stokes fluid. **99d:35185**
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Ishankulov, T. I. On the Cauchy problem for the linear stationary Navier-Stokes system. (Russian. Russian summary) **99f:35161**
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Khoromskiĭ, B. N. (*with* Wittum, Gabriel) An asymptotically optimal Schur complement reduction for the Stokes equation. (English summary) **99m:65188**
Kirvalidze, V. The Dirichlet problem for Stokes equation in a domain exterior to an open surface. (English summary) **99a:35201**
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Kobel′kov, G. M. (*with* Staroverov, V. M.) On the limit behavior of solutions of equations of a weakly compressible generalized Newtonian fluid with two small parameters. (Russian. Russian summary) **99f:35010**
Kratz, Werner An extremal problem related to the maximum modulus theorem for Stokes functions. (English summary) **99h:35162**
Kuznetsov, M. V. *see* **Maslennikova, V. N., 99j:35167**
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Lončarić, Josip Sensor/actuator placement via optimal distributed control of exterior Stokes flow. (English summary) **99i:49043**
Mammoli, A. A. (*with* Ingber, M. S.) Stokes flow around cyclinders in a bounded two-dimensional domain using multipole-accelerated boundary element methods. (English summary)
Maremonti, Paolo (*with* Solonnikov, Vsevolod A.) On nonstationary Stokes problem in exterior domains. (English summary) **99c:35092**
— (*with* Solonnikov, Vsevolod A.) On decay properties of solutions to Stokes system in exterior domains. (English summary) **99h:35165**
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Mukminov, F. Kh. On the set of limit functions for solutions of the nonstationary exterior Stokes problem. (Russian. Russian summary) **99h:35167**
Oden, J. Tinsley (*with* Feng, Yusheng; Prudhomme, Serge) Local and pollution error estimation for Stokesian flows. (English summary) **99c:76071**
Osses, Axel (*with* Puel, Jean-Pierre) Boundary controllability of a stationary Stokes system with linear convection observed on an interior curve. (English summary) **99i:93007**
Oswald, Peter An optimal multilevel preconditioner for solenoidal approximations of the two-dimensional Stokes problem. (English summary) **99c:65210**
Pal′tsev, B. V. (*with* Chechel′, I. I.) Algorithms for numerical realizations that are based on bilinear finite elements of iterative methods with splitting of boundary conditions for a Stokes-type system in a strip under the periodicity condition. (Russian. Russian summary) **99a:65155**
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Payne, Lawrence E. (*with* Straughan, Brian) Analysis of the boundary condition at the interface between a viscous fluid and a porous medium and related modelling questions. (English summary) **99c:35200**
Popescu, Marin Nicolae The effect of quadrature on curved simplices for Stokes equation. (English summary) **99c:65213**
Prudhomme, Serge *see* **Oden, J. Tinsley; et al., 99c:76071**
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Ruas, V. (*with* Zhu, Jiang[1]) On the velocity-vorticity formulation of the two-dimensional Stokes system and its finite element approximation. (English summary) **99d:76063**
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Sarin, Vivek (*with* Sameh, Ahmed H.) An efficient iterative method for the generalized Stokes problem. (English summary) **99b:65132**
Schötzau, Dominik (*with* Gerdes, Klaus; Schwab, Christoph) Galerkin least squares hp-finite element method for the Stokes problem. (English and French summaries) **99f:65174**
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Shibata, Yoshihiro *see* **Dan, Wakako, 99m:35185**
Sohr, Hermann (*with* Specovius-Neugebauer, Maria) The Stokes problem for exterior domains in homogeneous Sobolev spaces. (English summary) **99k:35145**
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Staroverov, V. M. *see* **Kobel′kov, G. M., 99f:35010**
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Stone, Howard A. *see* **Davis, Anthony M. J., 99f:76131**
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Wittum, Gabriel *see* **Khoromskiĭ, B. N., 99m:65188**
Ye, Xiu Domain decomposition for least-squares finite element methods for the Stokes equations. (English summary) **99h:65199**
You, Puhong (*with* Ding, Zhong Hai; Zhou, Jianxin) Optimal boundary control of the Stokes fluids with point velocity observations. (English summary) **99d:49014**
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Zhou, Ai Hui Multi-parameter asymptotic error resolution of the mixed finite element method for the Stokes problem. (English and French summaries) **99m:65227**
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Aèro, È. L. (*with* Bessonov, N. M.; Bulygin, A. N.) Dynamics of a momentum anisotropic fluid. (Russian. Russian summary) **99c:76033**
Andersson, Helge I. (*with* Valnes, Ole Andreas) Slip-flow boundary conditions for non-Newtonian lubrication layers. (English summary)
Bayada, Guy Some mathematical problems in the thin film lubrication theory. (*see* **99d:00018**)
— (*with* Chambat, Michèle; Ciuperca, Ionel Sorinel) Comportement asymptotique d'un fluide dans un domaine mince variable en temps. (English and French summaries) [Asymptotic behavior of a fluid in a thin time-varying domain] **99e:76035**
Bessonov, N. M. *see* **Aèro, È. L.; et al., 99c:76033**

Broadbridge, Philip (*with* Fulford, G. R.; Fowkes, N. D.; Chan, D. Y. C.; Lassig, C.) Bubbles in wet, gummed wine labels. (English summary) **99m:76051**
Bulygin, A. N. *see* **Aèro, È. L.; et al., 99c:76033**
Chambat, Michèle *see* **Bayada, Guy; et al., 99e:76035**
Chan, D. Y. C. *see* **Broadbridge, Philip; et al., 99m:76051**
Ciuperca, Ionel Sorinel *see* **Bayada, Guy; et al., 99e:76035**
Davies, A. R. *see* **Li, Xi Kui; et al., 99i:76039**
Díaz Díaz, Jesús Ildefonso (*with* Tello, J. I.) On a problem lacking a classical solution in lubrication theory. **99g:76041**
Elcoate, C. D. *see* **Hughes, T. G.; et al., 99k:76045**
Evans, H. Peredur *see* **Hughes, T. G.; et al., 99k:76045**
Fowkes, N. D. *see* **Broadbridge, Philip; et al., 99m:76051**
Fulford, G. R. *see* **Broadbridge, Philip; et al., 99m:76051**
Gheorghiu, C. I. On the behaviour of a thin liquid layer flowing due to gravity and a surface tension gradient. (English summary)
Gwynllyw, D. Rh. *see* **Li, Xi Kui; et al., 99i:76039**
Hughes, T. G. (*with* Elcoate, C. D.; Evans, H. Peredur) A novel method for integrating first- and second-order differential equations in elastohydrodynamic lubrication for the solution of smooth isothermal, line contact problems. (English summary) **99k:76045**
Ida, M. P. (*with* Miksis, Michael J.) The dynamics of thin films. I. General theory. (English summary) **99a:76040**
— (*with* Miksis, Michael J.) The dynamics of thin films. II. Applications. (English summary) **99a:76041**
Kraĭko, A. N. Isoperimetric problem of profiling the optimum clearance of an infinite plane slider bearing. (Russian. Russian summary)
Lassig, C. *see* **Broadbridge, Philip; et al., 99m:76051**
Li, Xi Kui (*with* Gwynllyw, D. Rh.; Davies, A. R.; Phillips, T. N.) Three-dimensional effects in dynamically loaded journal bearings. (English summary) **99i:76039**
Miksis, Michael J. *see* **Ida, M. P., 99a:76040** *and* **99a:76041**
Phillips, T. N. *see* **Li, Xi Kui; et al., 99i:76039**
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Valnes, Ole Andreas *see* **Andersson, Helge I.**

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Bayada, Guy (*with* Chambat, Michèle; Vázquez Cendón, C.) Characteristics method for the formulation and computation of a free boundary cavitation problem. (English summary) **99h:76055**
Bertozzi, Andrea L. The mathematics of moving contact lines in thin liquid films. **99h:76032**
Chambat, Michèle *see* **Bayada, Guy; et al., 99h:76055**
Halpern, D. *see* **Jensen, O. E., 99i:76038a**
Hui, Kin Ming Asymptotic behaviour of solutions of the modified lubrication equation. (English summary) **99b:35103**
Jensen, O. E. (*with* Halpern, D.) The stress singularity in surfactant-driven thin-film flows. I. Viscous effects. (English summary) **99i:76038a**
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Myers, T. G. Thin films with high surface tension. (English summary) **99g:76046**
Otto, Felix Lubrication approximation with prescribed nonzero contact angle. (English summary) **99m:35276**
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76D10 Boundary-layer theory

Abdullah, A. A. *see* **Hassanien, I. A.; et al.**
Achdou, Yves (*with* Le Tallec, Patrick; Valentin, Frederic G. C.; Pironneau, Olivier) Constructing wall laws with domain decomposition or asymptotic expansion techniques. (English summary) **99h:76027**
Aškonić, R. Simplified turbulent boundary layer calculation and the transformation of the velocity profile near the separation point. (English and Serbian summaries)
Bottaro, Alessandro *see* **Luchini, Paolo, 99c:76035**
Bowles, R. G. A. *see* **Dodia, B. T.; et al., 99f:76046**
Bowles, R. I. *see* **Li, Linzhong; et al., 99k:76047**
Butler, Matthew J. (*with* Duck, P. W.; Stansby, P. K.) An asymptotic description of the attached, turbulent, oscillatory boundary layer. (English summary) **99g:76042**
Castro, Ian P. (*with* Epik, Eleanora) Boundary layer development after a separated region. (English summary)
Chashechkin, Yu. D. *see* **Kistovich, A. V., 99j:76031**
Corke, Thomas C. *see* **Haddad, Osamah M.**
Diesperov, V. N. On a problem in the theory of layer mixing. (Russian. Russian summary) **99k:76046**
Dietz, A. J. Local boundary-layer receptivity to a convected free-stream disturbance. (English summary) **99j:76029**
Dodia, B. T. (*with* Bowles, R. G. A.; Smith, Frank T.) On effects of increasing amplitude in a boundary-layer spot. (English summary) **99f:76046**
Duck, P. W. *see* **Butler, Matthew J.; et al., 99g:76042**
Ehrenstein, Uwe (*with* Koch, Werner) Local dynamics near a nonsemisimple resonance in Blasius boundary-layer flow. (English summary) (*see* **99m:76003**)
Elliott, J. W. (*with* Smith, Frank T.) The effect of smooth deceleration of the external stream on an aligned flat-plate boundary layer. (English summary) **99c:76034**
Epik, Eleanora *see* **Castro, Ian P.**
Gersten, K. Introduction to boundary-layer theory. (English summary) (*see* **99h:76004**)
Geurts, Bernard J. *see* **Heeg, Ruerd S., 99g:76043**
Gorla, R. S. R. *see* **Hassanien, I. A.; et al.**
Haddad, Osamah M. (*with* Corke, Thomas C.) Boundary layer receptivity to free-stream sound on parabolic bodies. (English summary)
Hassanien, I. A. (*with* Abdullah, A. A.; Gorla, R. S. R.) Flow and heat transfer in a power-law fluid over a nonisothermal stretching sheet. (English summary)
Heeg, Ruerd S. (*with* Geurts, Bernard J.) Spatial instabilities of the incompressible attachment-line flow using sparse matrix Jacobi-Davidson techniques. (English summary) **99g:76043**
Herwig, H. Laminar boundary layers. Asymptotic and scaling considerations. (English summary) **99j:76030**
Kistovich, A. V. (*with* Chashechkin, Yu. D.) The exact stucture of boundary flows in media with diffusion and heat conduction. (Russian. Russian summary) **99j:76031**
Kluwick, Alfred Interacting laminar and turbulent boundary layers. (English summary) **99j:76032**
Koch, Werner *see* **Ehrenstein, Uwe, (99m:76003)**
Korolëv, G. L. On a method for constructing solutions of equations of a periodic boundary layer. (Russian. Russian summary) **99i:76040**
Kostić, Strahinja T. Contribution to the study of the universal equation of boundary layer of Saljnikov. (English and Serbian summaries) **99g:76044**
Kuiken, H. K. A free-convection boundary-layer model for the centrifugal etching of an axisymmetric cavity. (English summary) (*see* **99d:76001**)
Le Tallec, Patrick *see* **Achdou, Yves; et al., 99h:76027**
Li, Linzhong (*with* Walker, J. D. A.; Bowles, R. I.; Smith, Frank T.) Short-scale break-up in unsteady interactive layers: local development of normal pressure gradients and vortex wind-up. (English summary) **99k:76047**
Luchini, Paolo (*with* Bottaro, Alessandro) Görtler vortices: a backward-in-time approach to the receptivity problem. (English summary) **99c:76035**
Oleĭnik, Ol'ga Arsen'evna (*with* Samokhin, V. N.) ★ Математические методы в теории пограничного слоя. (Russian. Russian summary) [Mathematical methods in boundary-layer theory] **99j:76033**
Patel, Rupa A. *see* **Walton, Andrew G., 99b:76025**
Pironneau, Olivier *see* **Achdou, Yves; et al., 99h:76027**
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Riley, N. Unsteady fully-developed flow in a curved pipe. (English summary) **99f:76047**
Samokhin, V. N. Equations of a magnetohydrodynamic boundary layer with diffraction conditions. (Russian. Russian summary) **99d:76026**
— *see also* **Oleĭnik, Ol'ga Arsen'evna, 99j:76033**
Smith, Frank T. *see* **Elliott, J. W., 99c:76034**; **Dodia, B. T.; et al., 99f:76046** *and* **Li, Linzhong; et al., 99k:76047**
Stansby, P. K. *see* **Butler, Matthew J.; et al., 99g:76042**
Valentin, Frederic G. C. *see* **Achdou, Yves; et al., 99h:76027**
Walker, J. D. A. *see* **Li, Linzhong; et al., 99k:76047**
Walton, Andrew G. (*with* Patel, Rupa A.) On the neutral stability of spanwise-periodic boundary-layer and triple-deck flows. (English summary) **99b:76025**
Wu, Tzuyin Concerning unsteady boundary layers formulated in a non-inertial reference frame. (English summary) **99a:76042**

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Abd-el-Malek, Mina B. Application of the group-theoretical method to physical problems. (English summary) **99d:35012**
Achdou, Yves (*with* Mohammadi, Bijan; Pironneau, Olivier; Valentin, Frederic G. C.) Domain decomposition & wall laws. (English summary) **99h:76070**
Andersson, Helge I. (*with* Valnes, Ole Andreas) Slip-flow boundary conditions for non-Newtonian lubrication layers. (English summary)
Andersson, Paul (*with* Berggren, Martin; Henningson, Dan S.) Optimal disturbances in boundary layers. (English summary) (*see* **99d:49001**)
— (*with* Berggren, Martin; Henningson, Dan S.) Optimal disturbances and bypass transition in boundary layers. (English summary) **99h:76047**
Atassi, Oliver V. Analytical and numerical study of the nonlinear interaction between a point vortex and a wall-bounded shear layer. (English summary) **99h:76045**
Baggett, Jeffrey S. *see* **Reddy, Satish C.; et al., 99e:76053**
Bech, Knut H. (*with* Henningson, Dan S.; Henkes, Ruud A. W. M.) Linear and nonlinear development of localized disturbances in zero and adverse pressure gradient boundary-layers. (English summary) **99c:76043**
Berggren, Martin *see* **Andersson, Paul; et al., 99h:76047** *and* **(99d:49001)**
Bodonyi, R. J. Boundary-layer stability—asymptotic approaches. **99k:76056**
Bowles, R. I. (*with* Caporn, P.; Timoshin, S. N.) Nonlinear shortwave Tollmien-Schlichting instability in a boundary layer on a film-coated wall. (English summary) **99h:76043**
Brazier, J. Ph. *see* **Roget, C.; et al., 99e:76036**
Calzada, Maria E. Numerical study of flame propagation in boundary layers. (English summary) **99f:80006**
Caporn, P. *see* **Bowles, R. I.; et al., 99h:76043**
Carrillo, Ruben B., Jr. *see* **Saric, William S.; et al., (99h:76005)**
Chen, Cha'o-Kuang *see* **Yu, Lien-Tsai, 99d:34017**
Cortelezzi, L. (*with* Speyer, Jason L.) Robust reduced-order controller of transitional boundary layers. (English summary) (*see* **99d:49001**)
Cousteix, J. *see* **Roget, C.; et al., 99e:76036**
D'Attorre, Leonard Analytical solutions of the Navier-Stokes equation for the laminar and turbulent boundary layer, over a flat plate. (English summary) (*see* **99d:00026**)
Denier, James P. (*with* Stott, Jillian A. K.) Wave-mean flow interactions in thermally stratified Poiseuille flow. (English summary) **99k:76134**
Dijkstra, D. *see* **Heeg, Ruerd S.; et al., 99k:76053**
Durbin, Paul A. *see* **Jacobs, Robert G., 99d:76032**
E, Weinan (*with* Engquist, Björn) Blowup of solutions of the unsteady Prandtl's equation. (English summary) **99c:35196**
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76D15 Boundary-layer separation and reattachment

Alassar, R. S. (*with* Badr, H. M.) The impulsively started flow over oblate spheroids. (English summary)
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76D20 Higher-order effects in boundary layers

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76D25 Wakes and jets

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76D30 Singular perturbation problems

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76D33 Waves

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Henderson, D. M. *see* **Miles, J. W., 99c:76038**
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Langer, Heinz (*with* Tretter, Christiane) Spectral properties of the Orr-Sommerfeld problem. (English summary) **99e:34119**
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Barenblatt, G. I. (*with* Chorin, Alexandre J.) Scaling of the intermediate region in wall-bounded turbulence: the power law. Comment on: "Log laws or power laws: the scaling in the overlap region" [Phys. Fluids **9** (1997), no. 7, 2094–2100; MR 98d:76075] by M. V. Zagarola, A. E. Perry and A. J. Smits.
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Chen, Shuxing Global existence of supersonic flow past a curved convex wedge. (English summary) **99c:76059**
Chernyshev, S. A. *see* **Kop'ev, V. F., 99i:76080**
Delale, C. F. (*with* van Dongen, M. E. H.) Thermal choking in two-dimensional expansion flows. (English summary) **99f:76079**
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Lee, Shih-Tuen *see* **Yang, Jaw-Yen; et al., 99c:76078**
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Wang, Zhi Jian[4] A conservative interface algorithm for moving Chimera (overlapped) grids. (English summary) **99g:76119**
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Kraĭko, A. N. (*with* Pudovikov, D. E.) On the construction of symmetric profiles that are optimal in a supersonic and a hypersonic flow under arbitrary isoperimetric conditions. (Russian. Russian summary) **99c:76063**
Lin, Sinn-Cheng *see* **Chou, Y.-T.; et al.**
Park, Taehoon Central expansion wave in nonequilibrium flow. (English summary) **99k:76090**
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Chieng, Ching-Chang *see* **Lin, Herng, 99d:80013**
Druguet, Marie-Claude *see* **Sanders, Richard; et al., 99g:76095**
Grotowsky, I. M. G. (*with* Ballmann, Josef) Efficient time integration of Navier-Stokes equations. (English summary) **99j:76083**
Kim, Kyu Hong (*with* Lee, Joon Ho; Rho, Oh Hyun) An improvement of AUSM schemes by introducing the pressure-based weight functions. (English summary) **99b:76054**
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76L05 Shock waves and blast waves [see also 35L67, 73D05]

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Borodin, Aleksandr Ivanovich On the computation of the pressure gradient in a model of a parabolized viscous shock layer. (Russian. Russian summary) **99f:76082**
Broadwell, James E. Shocks and energy dissipation in inviscid fluids: a question posed by Lord Rayleigh. (English summary) **99f:76083**
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Raman, Ganesh Shock-induced flow resonance in supersonic jets of complex geometry. (English summary) **99j:76069**
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76N20 Boundary-layer theory

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76P05 Rarefied gas flows, Boltzmann equation [see also 82B40, 82C40, 82D05]

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Zarins, Christopher K. *see* **Taylor, Charles A.; et al., 99d:92014**

76Z10 Biopropulsion in water and in air

Bees, M. A. (*with* Hill, N. A.) Non-linear bioconvection in a deep suspension of gyrotactic swimming micro-organisms. (English summary) **99k:76166**
Hill, N. A. *see* **Bees, M. A., 99k:76166**
Metcalfe, A. M. (*with* Pedley, T. J.) Bacterial bioconvection: weakly nonlinear theory for pattern selection. (English summary) **99g:76164**
Pedley, T. J. *see* **Metcalfe, A. M., 99g:76164**

Items with secondary classifications in 76Z10

Almog, Y. (*with* Frankel, I.) Rheology of dilute suspensions of Brownian dipolar axisymmetric particles. (English summary) **99c:76109**
Delgado Fernández, Joaquín *see* **Koiller, Jair, 99m:76050**
Frankel, I. *see* **Almog, Y., 99c:76109** *and* **Puyesky, I., 99f:76017**
Koiller, Jair (*with* Delgado Fernández, Joaquín) On efficiency calculations for nonholonomic locomotion problems: an application to microswimming. (English summary) **99m:76050**
Puyesky, I. (*with* Frankel, I.) The motion of a dipolar spherical particle in homogeneous shear and time-periodic fields. (English summary) **99f:76017**

76Z99 None of the above, but in this section

Items with secondary classifications in 76Z99

Drake, James M. *see* **Stastna, M.; et al., (99m:34001)**
Enomoto, Yoshihisa (*with* Sekimura, Toshio) On the shape problems of vesicles of lipid bilayers. (English summary) **99e:92009**
Howle, Laurens (*with* Schaeffer, David G.; Shearer, Michael; Zhong, Pei) Lithotripsy: the treatment of kidney stones with shock waves. (English summary) **99d:92009**
Lendowski, Volker ★ Modellierung und Simulation der Bewegung eines Körpers in reaktiven Zweiphasenflüssigkeiten. (German) [Modeling and simulation of the motion of a body in reactive two-phase fluids] **99a:76154**
Schaeffer, David G. *see* **Howle, Laurens; et al., 99d:92009**
Sekimura, Toshio *see* **Enomoto, Yoshihisa, 99e:92009**
Shearer, Michael *see* **Howle, Laurens; et al., 99d:92009**
Sivaloganathan, S. *see* **Stastna, M.; et al., (99m:34001)**
Stastna, M. (*with* Sivaloganathan, S.; Tenti, G.; Drake, James M.) Brain biomechanics: an exact solution, and asymptotics of slow variations, for the time dependent equations of consolidation theory. (English summary) (*see* **99m:34001**)
Tenti, G. *see* **Stastna, M.; et al., (99m:34001)**
Zhong, Pei *see* **Howle, Laurens; et al., 99d:92009**

78–XX Optics, electromagnetic theory {For quantum optics, see 81V80.}

78–01 Instructional exposition (textbooks, tutorial papers, etc.)

(Bromley, D. Allan) *see* **Greiner, Walter, 99h:78001**
Greiner, Walter ★ Classical electrodynamics. **99h:78001**
Leisi, Hans Jörg ★ Klassische Physik. Band 2. (German. German summary) [Classical physics. Vol. 2] **99g:78001**

78–02 Research exposition (monographs, survey articles)

Bouche, Daniel (*with* Molinet, Frédéric) ★ Méthodes asymptotiques en électromagnétisme. (French. French summary) [Asymptotic methods in electromagnetism] **99a:78001**
(Dautray, Robert) *see* **Bouche, Daniel, 99a:78001**
Evans, Myron Wyn The B cyclic theorem for multipole radiation. (English summary) (*see* **99h:81226**)
– Reduction of Equation (1.29) to Equation (1.32). (*see* **99h:81226**)
– Four-dimensional cyclics. (*see* **99h:81226**)
– Complete Lie algebra of the Poincaré group. (*see* **99h:81226**)
– Standard expressions for generator matrices. (*see* **99h:81226**)
– Poincaré group, Maxwell equations and cyclics. (*see* **99h:81226**)
– The Lehnert current. (*see* **99h:81226**)
– Some useful relations in spherical polar coordinates. (*see* **99h:81226**)
– Invariance of the B cyclics. (English summary) (*see* **99h:81226**)
– Zero field helicity of the U(1) gauge. (English summary) (*see* **99h:81226**)
– Link between Yang-Mills theory of electrodynamics and relativistic helicity. (English summary) (*see* **99h:81226**)
– Description of the inverse Faraday effect in terms of rotational energy transferred in a photon-electron collision. (English summary) (*see* **99h:81226**)
– Molecular dynamics computer simulation of the inverse Faraday and Beth effects in liquid water. (English summary) (*see* **99h:81226**)
Molinet, Frédéric *see* **Bouche, Daniel, 99a:78001**

Items with secondary classifications in 78–02

Bossavit, Alain ★ Computational electromagnetism. (English summary) **99m:78001**
Friedman, Avner ★ Mathematics in industrial problems. Part 10. (English summary) **99g:00028**

78–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 78–03

Chen, Xiang[2] Dispersion, experimental apparatus, and the acceptance of the wave theory of light. (English summary)
Corry, Leo David Hilbert between mechanical and electromagnetic reductionism (1910–1915). **99m:01023**
(Descartes, René) *see* **Rodis-Lewis, Geneviève, 99k:01017**
(Hilbert, David[1]) *see* **Corry, Leo, 99m:01023**
Maravall Casesnoves, Darío The development of mechanics and mathematical physics in the XIXth century. (Spanish) **99k:01025a**
– The development of mechanics and mathematical physics in the XIXth century. II. (Spanish) **99k:01025b**
Maxwell, James Clerk ★ A treatise on electricity and magnetism. Vol. 1. (English summary) **99k:01087a**
– ★ A treatise on electricity and magnetism. Vol. 2. (English summary) **99k:01087b**
(Niven, W. D.) *see* **Maxwell, James Clerk, 99k:01087a**
Rodis-Lewis, Geneviève Quelques remarques sur la question de la vitesse de la lumière chez Descartes. (English and French summaries) [Some remarks about the question of the speed of light in Descartes] **99k:01017**
(Thomson, Joseph John) *see* **Maxwell, James Clerk, 99k:01087a**

78–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 78–04

Martin, Geoffrey (*with* Sterling, Ivan) Visualizing nonlinear electrodynamics. (English summary) (*see* **99g:68212**)
Sterling, Ivan *see* **Martin, Geoffrey, (99g:68212)**

78–05 Experimental papers

Collino, Francis (*with* Fouquet, Thierry; Joly, Patrick) Une méthode de raffinement de maillage espace-temps pour le système de Maxwell en dimension un. (English and French summaries) [A space-time mesh refinement method for the 1D Maxwell system] **99k:78001**
Fouquet, Thierry *see* **Collino, Francis; et al., 99k:78001**
Joly, Patrick *see* **Collino, Francis; et al., 99k:78001**

78–06 Proceedings, conferences, collections, etc.

(Bazarova, M. P.) *see* **Problems in the diffraction and propagation of waves, 99g:78002**
(Moloney, Jerome V.) *see* **Nonlinear optical materials, 99d:78001**
(Taflove, Allen) *see* **Advances in computational electrodynamics, 99c:78001**

Items listed otherwise than by author

Advances in computational electrodynamics ★ Advances in computational electrodynamics. **99c:78001**
Minneapolis, MN ★ Nonlinear optical materials. **99d:78001**
Nonlinear optical materials ★ Nonlinear optical materials. **99d:78001**
Problems in the diffraction and propagation of waves ★ Проблемы дифракции и распространения волн. Вып. 27. (Russian) [Problems in the diffraction and propagation of waves. No. 27] **99g:78002**
Workshop:
Nonlinear Optical Materials ★ Nonlinear optical materials. **99d:78001**

Items with secondary classifications in 78–06

(DeSanto, John A.) *see* **Mathematical and numerical aspects of wave propagation, 99d:00023**
(Dulikravich, G. S.) *see* **Inverse problems in engineering mechanics, 99k:80001**
(El Dabaghi, Fadi) *see* **Approximations and numerical methods for the solution of Maxwell's equations, 99a:00020**
(Evans, Myron Wyn) *see* **Enigmatic photon, 99h:81226**
(Hunter, Geoffrey[2]) *see* **Enigmatic photon, 99h:81226** *and* **Causality and locality in modern physics, 99j:81005**
(Jeffers, Stanley) *see* **Causality and locality in modern physics, 99j:81005**
(Jerome, Joseph W.) *see* **Modelling and computation for applications in mathematics, science, and engineering, 99k:00033**
(Morgan, Kenneth) *see* **Approximations and numerical methods for the solution of Maxwell's equations, 99a:00020**
(Parrott, K.) *see* **Approximations and numerical methods for the solution of Maxwell's equations, 99a:00020**
(Périaux, Jacques) *see* **Approximations and numerical methods for the solution of Maxwell's equations, 99a:00020**
(Roy, Sisir) *see* **Enigmatic photon, 99h:81226**
(Tanaka, Masataka) *see* **Inverse problems in engineering mechanics, 99k:80001**
(Vigier, Jean-Pierre) *see* **Enigmatic photon, 99h:81226** *and* **Causality and locality in modern physics, 99j:81005**

Items listed otherwise than by author

Approximations and numerical methods for the solution of Maxwell's equations ★ Approximations and numerical methods for the solution of Maxwell's equations. **99a:00020**
Causality and locality in modern physics ★ Causality and locality in modern physics. **99j:81005**
Conference:
Approximations and Numerical Methods for the Solution of Maxwell's Equations ★ Approximations and numerical methods for the solution of Maxwell's equations. **99a:00020**
Mathematical and Numerical Aspects of Wave Propagation ★ Mathematical and numerical aspects of wave propagation. **99d:00023**
Enigmatic photon ★ The enigmatic photon. Vol. 4. **99h:81226**
Evanston, IL ★ Modelling and computation for applications in mathematics, science, and engineering. **99k:00033**
Festschrift:
Vigier, Jean-Pierre ★ Causality and locality in modern physics. **99j:81005**
Golden, CO ★ Mathematical and numerical aspects of wave propagation. **99d:00023**
Inverse problems in engineering mechanics ★ Inverse problems in engineering mechanics. **99k:80001**
IUTAM Symposium:
Inverse Problems in Engineering Mechanics ★ Inverse problems in engineering mechanics. **99k:80001**
Mathematical and numerical aspects of wave propagation ★ Mathematical and numerical aspects of wave propagation. **99d:00023**
Modelling and computation for applications in mathematics, science, and engineering ★ Modelling and computation for applications in mathematics, science, and engineering. **99k:00033**
Nagano ★ Inverse problems in engineering mechanics. **99k:80001**
Oxford ★ Approximations and numerical methods for the solution of Maxwell's equations. **99a:00020**
Symposium:
Causality and Locality in Modern Physics and Astronomy: Open Questions and Possible Solutions ★ Causality and locality in modern physics. **99j:81005**
Toronto, ON ★ Causality and locality in modern physics. **99j:81005**
Workshop:
Modelling and Computation for Applications in Mathematics, Science, and Engineering ★ Modelling and computation for applications in mathematics, science, and engineering. **99k:00033**

78–08 Computational methods

Abouchabaka, J. (*with* Aboulaïch, R.; Souissi, A.) Numerical approach of a free boundary in the junction field effect transistor—MESFET. (English summary) **99i:78001**
Aboulaïch, R. *see* **Abouchabaka, J.; et al., 99i:78001**
Abramovich, Yuri I. (*with* Gray, Douglas A.; Gorokhov, Alexei Y.; Spencer, Nicholas K.) Positive-definite Toeplitz completion in DOA estimation for nonuniform linear antenna arrays. I. Fully augmentable arrays. (English summary)
Agarwal, Ramesh K. A compact fourth-order finite-volume time-domain/frequency-domain method for electromagnetic scattering. (English summary) **99c:78002**
Albanese, Raffaele (*with* Fresa, R.) Upper and lower bounds for local electromagnetic quantities. (English summary) **99a:78002**
Alëshin, M. V. On the variational method for solving magnetostatic problems. (Russian. Russian summary) **99j:78001**
Alfonzetti, S. (*with* Borzi, G.; Salerno, N.) Iteratively-improved Robin boundary conditions for the finite element solution of scattering problems in unbounded domains. (English summary) **99b:78001**

Alliot, J. C. *see* **Ferrieres, X.; et al.**, (**99a:00020**)

Alonso Rodríguez, Ana (*with* Valli, Alberto) An optimal domain decomposition preconditioner for low-frequency time-harmonic Maxwell equations. (English summary) **99i:78002**

Ammari, Habib (*with* Ferreira, Pedro Alexandre) Numerical methods for scattering problems by curved gratings at high frequencies. (English summary) **99g:78003**

Apel'tsin, V. F. (*with* Il'inskiĭ, A. S.) High-frequency projection method for plane problems of wave diffraction on dielectric bodies. (English summary) **99b:78002**

Bartholomew-Biggs, M. C. *see* **Zakovic, S.; et al.**

Bekkey, Chokri (*with* Djellouli, Rabia) An integral method to compute guided modes optical couplers. (English summary) (*see* **99a:00020**)

Bendickson, Jon M. (*with* Glytsis, Elias N.; Gaylord, Thomas K.) Scalar integral diffraction methods: unification, accuracy, and comparison with a rigorous boundary element method with application to diffractive cylindrical lenses. (English summary)

Bermúdez de Castro, Alfredo (*with* Muñiz, M. C.) Numerical solution of an electromagnetic problem in the casting of aluminum. (Spanish) (*see* **99d:00018**)

Bernardo, Luís Miguel *see* **Marinho, Francisco J.**, **99c:78005**

Bespalov, A. New fictitious domain approach for numerical solution of the 3D electromagnetic scattering problem using Cartesian meshes. (English summary) **99e:78001**

Bientinesi, Paolo *see* **Finocchiaro, Daniele; et al.**, **99h:78003**

Biró, Oszkár Edge element formulations of eddy current problems. (English summary)

Borsboom, P-P. *see* **Levy, M. F.**, (**99a:00020**)

Borzì, G. *see* **Alfonzetti, S.; et al.**, **99b:78001**

Bossavit, Alain ★ Computational electromagnetism. (English summary) **99m:78001**

Bruno, Oscar P. (*with* Sei, Alain) A fast high-order solver for problems of scattering by heterogeneous bodies. (*see* **99d:00023**)

Bryant, C. F. (*with* Emson, C. R. I.; Simkin, J.; Trowbridge, C. W.; Nitta, K.) A comparison of Lorentz and Coulomb gauges in the solution of Maxwell's equations. (English summary) **99e:78002**

Bryla, Philippe AS-Descartes: a ray-tracing code, including diffraction capabilities for the RCS calculation of complex targets. (English summary) (*see* **99a:00020**)

Bunting, Charles F. (*with* Davis, William A.) A functional for dynamic finite-element solutions in electromagnetics. (English summary)

Burnett, David S. (*with* Holford, Richard L.) Multipole-based 3-D infinite elements: an ellipsoidal acoustic element and a spherical electromagnetic element. (*see* **99h:65004**)

Butcher, E. A. (*with* Sinha, S. C.) Symbolic computation of local stability and bifurcation surfaces for nonlinear time-periodic systems. (English summary) **99e:78003**

Cedell, Tord *see* **Weston, Richard S.**, **99g:78009** *and* **99g:78010**

Chew, Weng Cho *see* **Jandhyala, Vikram; et al.**, **99c:78004**

Choukroun, Franck (*with* Leca, Pierre; Roux, François-Xavier; Ha-Duong, Tuong) Parallel solver for 3D Maxwell integral equations on axisymmetrical geometry. (English summary) (*see* **99a:00020**)

Christiansen, Søren (*with* Kleinman, Ralph E.) Authors' reply to: "Comments on: 'On a misconception involving point collocation and the Rayleigh hypothesis' " [IEEE Trans. Antennas and Propagation **46** (1998), no. 11, 1765; 1665780] by A. B. Manenkov.

— *see also* **Manenkov, A. B.**

Cloude, S. R. *see* **Tyrrell, A. M.; et al.**, (**99a:00020**)

Cohen, Gary (*with* Monk, P. B.) Mur-Nédélec finite element schemes for Maxwell's equations. (English summary) **99k:78002**

Collino, Francis (*with* Joly, Patrick; Millot, Florence) Fictitious domain method for unsteady problems: application to electromagnetic scattering. (English summary) **99i:78003**

— (*with* Monk, P. B.) Optimizing the perfectly matched layer. (English summary) **99h:78002**

— *see also* **Monk, P. B.**, (**99h:65004**)

Davies, Penny J. A stability analysis of a time marching scheme for the general surface electric field integral equation. (English summary) **99d:78002**

Davis, William A. *see* **Bunting, Charles F.**

Demkowicz, L. A posteriori error analysis for steady-state Maxwell's equations. (*see* **99d:73001**)

— (*with* Vardapetyan, L.) Modeling of electromagnetic absorption/scattering problems using *hp*-adaptive finite elements. (English summary) **99b:78003**

— *see also* **Vardapetyan, L.**, **99k:78004**

Depine, Ricardo A. *see* **Skigin, Diana C.**, **99e:78011**

Di Menza, Laurent (*with* Maleck-Rassoul, Rysvan) Résolution numérique par différences finies d'un système couplé issu de la dynamique des plasmas. (English and French summaries) [Numerical solution by finite differences of a coupled system derived from plasma dynamics] **99g:78004**

Djellouli, Rabia *see* **Bekkey, Chokri**, (**99a:00020**)

Dobner, Hans-Jürgen (*with* Ritter, Stefan) Reliable computation of eigenvalues of the magnetostatic integral operator. (English summary) **99a:78003**

Doicu, A. *see* **Wriedt, T.**, **99i:78007**

Dupré, L. R. (*with* Van Keer, Roger; Melkebeek, J. A. A.) Complementary 2-D finite element procedures for the magnetic field analysis using a vector hysteresis model. (English summary) **99f:78001**

— *see also* **Van Keer, Roger; et al.**, **99j:78005**

Dyczij-Edlinger, Romanus (*with* Peng, Guanghua; Lee, Jin-Fa) Efficient finite element solvers for the Maxwell equations in the frequency domain. (English summary) **99k:78003**

Emson, C. R. I. *see* **Bryant, C. F.; et al.**, **99e:78002**

Evans, David John² (*with* Lambert, A.; Milne, A. M.; Taylor, S.) A study of transmission and reflection characteristics of an aircraft antenna using INGRID. (English summary) (*see* **99a:00020**)

Ferreira, Pedro Alexandre *see* **Ammari, Habib**, **99g:78003**

Ferrieres, X. (*with* Grando, J.; Alliot, J. C.) Using time domain methods (FDTD, MOT) for radar cross section (RCS) predictions on perfectly conducting objects. (*see* **99a:00020**)

Finocchiaro, Daniele (*with* Pellegrini, Marco; Bientinesi, Paolo) On numerical approximation of electrostatic energy in 3D. (English summary) **99h:78003**

Fresa, R. *see* **Albanese, Raffaele**, **99a:78002**

Gaylord, Thomas K. *see* **Bendickson, Jon M.; et al.**

Gedney, Stephen D. The perfectly matched layer absorbing medium. **99h:78004**

— (*with* Roden, J. Alan; Madsen, Niel K.; Mohammadian, Alireza H.; Hall, William F.; Shankar, Vijaya; Rowell, Chris) Explicit time-domain solutions of Maxwell's equations via generalized grids. **99j:78002**

Gilányi, Attila (*with* Miya, Kenzo) Application of wavelet technique to electromagnetic boundary value problems. (English summary) **99a:78004**

Glytsis, Elias N. *see* **Bendickson, Jon M.; et al.**

Goggans, P. M. *see* **Pursel, J. D.**

Gorokhov, Alexei Y. *see* **Abramovich, Yuri I.; et al.**

Grando, J. *see* **Ferrieres, X.; et al.**, (**99a:00020**)

Gray, Douglas A. *see* **Abramovich, Yuri I.; et al.**

Ha-Duong, Tuong *see* **Choukroun, Franck; et al.**, (**99a:00020**)

Hager, William W. A discrete model for the lightning discharge. (English summary) **99e:78004**

Hall, W. S. (*with* Mao, Xin Qiang) Eigenvalue and resonance frequencies in electromagnetic scattering. (English summary) **99c:78003**

Hall, William F. *see* **Gedney, Stephen D.; et al.**, **99j:78002**

Harvey, James F. *see* **Katehi, Linda P. B.; et al.**, **99j:78003**

Hassan, O. *see* **Morgan, Kenneth; et al.**, **99e:78007**

Holford, Richard L. *see* **Burnett, David S.**, (**99h:65004**)

Il'inskiĭ, A. S. *see* **Apel'tsin, V. F.**, **99b:78002**

Inglesfield, J. E. The embedding method for electromagnetics. (English summary) **99g:78005**

Jandhyala, Vikram (*with* Shanker, Balasubramaniam; Michielssen, Eric; Chew, Weng Cho) Fast algorithm for the analysis of scattering by dielectric rough surfaces. (English summary) **99c:78004**

Jennings, N. Implementation of Engquist-Majda and Higdon absorbing boundary conditions in a finite element time domain electromagnetic code. (English summary) (*see* **99a:00020**)

— *see also* **Parrott, A. K.; et al.**, (**99a:00020**)

Jevtić, Jovan O. *see* **Nehrbass, John W.; et al.**, **99d:78004**

Joly, Patrick *see* **Collino, Francis; et al.**, **99i:78003**

Katehi, Linda P. B. (*with* Harvey, James F.; Tentzeris, Emmanouil) Time-domain analysis using multiresolution expansions. **99j:78003**

Kesler, Morris P. *see* **Maloney, James G.**, (**99c:78001**)

Klar, Axel Asymptotic-induced domain decomposition methods for kinetic and drift diffusion semiconductor equations. (English summary) **99e:78005**

Kleinman, Ralph E. *see* **Christiansen, Søren** *and* **Manenkov, A. B.**

Kotina, E. D. On numerical solving of the problem of preassigned motions formation of charged particles in magnetic field. (English summary) (*see* **99k:65003**)

Kuhn, Michael The application of coupled BE/FE formulations in technical magnetic field computations. (English summary) **99d:78003**

Kurgan, E. A boundary element solution of the inhomogeneous magnetostatic problems. (English summary) **99f:78002**

Kuzuoglu, Mustafa (*with* Mittra, Raj) Finite element solution of electromagnetic problems over a wide frequency range via the Padé approximation. (English summary)

Labbé, Stéphane (*with* Leca, Pierre) Résolution rapide des équations de Maxwell quasi-stationnaires: matrices Toeplitz multi-niveaux. Application au micromagnétisme. (English and French summaries) [Fast solver for the quasistatic Maxwell equations: block-Toeplitz matrices. Application to micromagnetism] **99g:78006**

Lambert, A. *see* **Evans, David John²; et al.**, (**99a:00020**)

Leca, Pierre *see* **Labbé, Stéphane**, **99g:78006** *and* **Choukroun, Franck; et al.**, (**99a:00020**)

Lee, Jin-Fa *see* **Dyczij-Edlinger, Romanus; et al.**, **99k:78003** *and* **Liu, Chibing**

Lee, Ju Hong *see* **Yu, Shiann-Jeng**

Lee, Robert *see* **Nehrbass, John W.; et al.**, **99d:78004**

LeHyaric, A. Equivalent boundary conditions in electromagnetism. (English summary) **99e:78006**

— *see also* **Parrott, A. K.; et al.**, (**99a:00020**)

Lemke, Raymond W. *see* **Pasik, Michael F.; et al.**

Levy, M. F. (*with* Borsboom, P-P.) RCS computations using a parabolic equation method. (English summary) (*see* **99a:00020**)

Liu, Chibing (*with* Lee, Jin-Fa) Jacobi-Davidson algorithm and its application to modeling RF/microwave detection circuits. (English summary)

Luk, Kwai-Man *see* **Luo, Yong-Lun; et al.**, **99i:78004**

Luke, Jonathan H. C. A finite difference method for dispersive linear waves with applications to simulating microwave pulses in water. (English summary) **99h:78005**

Luo, Yong-Lun (*with* Luk, Kwai-Man; Shum, Siu-Ming) A novel exact two-point field equation (2PFE) for solving electromagnetic scattering problems. (English summary) **99i:78004**

Mackerle, Jaroslav Finite element and boundary element analyses of eddy current problems. A bibliography (1995–1997). (English summary)

Madsen, Niel K. *see* **Gedney, Stephen D.; et al.**, **99j:78002**

Maleck-Rassoul, Rysvan *see* **Di Menza, Laurent**, **99g:78004**

Maloney, James G. (*with* Kesler, Morris P.) Analysis of periodic structures. (*see* **99c:78001**)

Manenkov, A. B. Comments on: "On a misconception involving point collocation and the Rayleigh hypothesis" [IEEE Trans. Antennas and Propagation **44** (1996), no. 10, 1309–1316; MR 97h:78002] by S. Christiansen and R. E. Kleinman.

— *see also* **Christiansen, Søren**

Mao, Xin Qiang *see* **Hall, W. S.**, **99c:78003**

Marinho, Francisco J. (*with* Bernardo, Luís Miguel) Numerical calculation of fractional Fourier transforms with a single fast-Fourier-transform algorithm. (English summary) **99c:78005**

Martakov, S. V. Numerical solution of 1D inverse problem for Maxwell's equations by the optimization method. (English summary) **99h:78006**

Melkebeek, J. A. A. *see* **Dupré, L. R.; et al.**, **99f:78001** *and* **Van Keer, Roger; et al.**, **99j:78005**

Michalski, Krzysztof A. Extrapolation methods for Sommerfeld integral tails. (English summary) **99g:78007**

Michielssen, Eric *see* **Jandhyala, Vikram; et al.**, **99c:78004**

Millot, Florence *see* **Collino, Francis; et al., 99i:78003**
Milne, A. M. *see* **Evans, David John[2]; et al., (99a:00020)**
Mittra, Raj *see* **Kuzuoglu, Mustafa** *and* **Varadarajan, V. S., (99a:00020)**
Miya, Kenzo *see* **Gilányi, Attila, 99a:78004**
Mohammadian, Alireza H. *see* **Gedney, Stephen D.; et al., 99j:78002**
Monk, P. B. (*with* Collino, Francis) Optimizing the perfectly matched layer. (*see* **99h:65004**)
— *see also* **Collino, Francis, 99h:78002**; **Cohen, Gary, 99k:78002** *and* **Parrott, A. K.; et al., (99a:00020)**
Morgan, Kenneth (*with* Hassan, O.; Peraire, Jaime) A finite element procedure for electromagnetic scattering simulations. (English summary) **99e:78007**
Muñiz, M. C. *see* **Bermúdez de Castro, Alfredo, (99d:00018)**
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de Moura, Marco A. *see* **de Oliveira, Jairo R., 99a:78034**
Musslimani, Ziad H. (*with* Malomed, Boris A.) Modulational instability in bulk dispersive quadratically nonlinear media. (English summary) (*see* **99h:00031**)
Neĭmark, Yu. I. *see* **Malykin, G. B., 99k:78030**
de Oliveira, Jairo R. (*with* de Moura, Marco A.) Analytical solution for the modified nonlinear Schrödinger equation describing optical shock formation. (English summary) **99a:78034**
Razgulin, A. V. Galerkin and inertial manifold methods for finite-dimensional approximation of nonlocal equations of nonlinear optics. (English summary) **99a:78035**
Roy, Rajarshi *see* **Ashwin, Peter; et al., 99g:78026**
Rozanov, N. N. ★ Оптическая бистабильность и гистерезис в распределенных нелинейных системах. (Russian. Russian summary) [Optical bistability and hysteresis in distributed nonlinear systems] **99g:78030**
Singh, Harvinder *see* **Subbarao, D.; et al., 99f:78021**
de Sterke, C. Martijn Nonlinear optics in structures with dimensional confinement. (English summary) **99e:78037**
Strogatz, Steven H. *see* **Yeung, M. K. Stephen, 99h:78025**
Stuart, C. A. Magnetic field wave equations for TM-modes in nonlinear optical waveguides. **99f:78020**
Subbarao, D. (*with* Uma, Ramanathan; Singh, Harvinder) Paraxial theory of self-focusing of cylindrical laser beams. I. ABCD laws. (English summary) **99f:78021**
Terry, John R. *see* **Ashwin, Peter; et al., 99g:78026**
Thornburg, K. Scott, Jr. *see* **Ashwin, Peter; et al., 99g:78026**
Tredicce, J. R. *see* **Coullet, P.; et al., 99g:78027**
Trillo, Stefano *see* **Bang, Ole; et al., 99h:78023**
Trofimov, V. A. A nonlinear wave equation of the laser optics of femtosecond pulses. (Russian. Russian summary)
— On a new approach to modeling the nonlinear propagation of ultrashort laser pulses. (Russian. Russian summary) **99c:78018**
— An invariant of the propagation of femtosecond pulses in a nonlinearly absorbing medium. (Russian. Russian summary)
— *see also* **Varentsova, S. A.**
Turitsyn, Sergei K. (*with* Aceves, Alejandro B.; Jones, Christopher K. R. T.; Zharnitsky, Vadim; Mezentsev, Vladimir K.) Hamiltonian averaging in soliton-bearing systems with a periodically varying dispersion. (English summary) **99m:78012**
Tvorogov, S. D. The Green function for some problems of nonlinear electrodynamics. (Russian. Russian summary) **99e:78038**
Uma, Ramanathan *see* **Subbarao, D.; et al., 99f:78021**
Valkering, Theo P. (*with* de Boer, Pieter-Tjerk; Hoekstra, Hugo J. W. M.) Soliton switching in directional couplers. (English summary) **99k:78031**
Varentsova, S. A. (*with* Trofimov, V. A.) Lagrangian of the process of the generation of the second wave harmonic of femtosecond light pulses. (Russian. Russian summary)
Xie, Kang *see* **Boardman, A. D., 99f:78019**
Yang, Jianke Multisoliton perturbation theory for the Manakov equations and its applications to nonlinear optics. (English summary) **99j:78023**
Yeung, M. K. Stephen (*with* Strogatz, Steven H.) Nonlinear dynamics of a solid-state laser with injection. (English summary) **99h:78025**
Yew, A. C. (*with* Champneys, A. R.; McKenna, P. J.) Multiple solitary waves due to second-harmonic generation in quadratic media. (English summary) **99i:78025**
Zharnitsky, Vadim *see* **Turitsyn, Sergei K.; et al., 99m:78012**

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Alexeeva, N. V. (*with* Barashenkov, I. V.; Pelinovsky, Dmitry E.) Dynamics of the parametrically driven NLS solitons beyond the onset of the oscillatory instability. (English summary) **99j:35197**
Ambrosetti, Antonio (*with* Arcoya, David; Gámez, J. L.) Asymmetric bound states of differential equations in nonlinear optics. **99m:34103**
Arcoya, David *see* **Ambrosetti, Antonio; et al., 99m:34103**
Aubry, Serge *see* **Johansson, Magnus; et al., 99e:70060**
Barashenkov, I. V. *see* **Alexeeva, N. V.; et al., 99j:35197**
Bażański, Stanisław L. The split and propagation of light rays in relativity. (English summary) **99m:83023**
Bergman, David J. (*with* Levy, Ohad) Nonlinear behavior and optical bistability in composite media. (English summary) **99g:78031**
Bezák, Viktor Theory of randomly inhomogeneous waveguides with slight material dispersion. I. Single-mode waveguides. (English summary) **99e:78033**
— Theory of randomly inhomogeneous waveguides with slight material dispersion. II. Parabolic graded-index fibres. (English summary) **99e:78034**
Boyadzhiev, L. I. (*with* Dobner, Hans-Jürgen) On the solution of a fractional free electron laser equation. (English summary) **99h:45011**
— (*with* Dobner, Hans-Jürgen; Kalla, Shyam L.) A fractional integro-differential equation of Volterra type. (English summary) **99i:45013**
Boyd, John Philip ★ Weakly nonlocal solitary waves and beyond-all-orders asymptotics. (English summary) **99h:35180**
Burtsev, S. P. (*with* Camassa, Roberto; Timofeyev, I.) Numerical algorithms for the direct spectral transform with applications to nonlinear Schrödinger type systems. (English summary) **99g:34036**
Camassa, Roberto *see* **Burtsev, S. P.; et al., 99g:34036**
Christiansen, Peter Leth *see* **Johansson, Magnus; et al., 99e:70060**
Di Menza, Laurent (*with* Maleck-Rassoul, Rysvan) Résolution numérique par différences finies d'un système couplé issu de la dynamique des plasmas. (English and French summaries) [Numerical solution by finite differences of a coupled system derived from plasma dynamics] **99g:78004**
Dobner, Hans-Jürgen *see* **Boyadzhiev, L. I., 99h:45011** *and* **99i:45013**
Donnat, P. (*with* Joly, J.-L.; Métivier, Guy; Rauch, Jeffrey B.) Diffractive nonlinear geometric optics. **99m:35147**
Gabitov, Ildar (*with* Marshall, I. D.) Removing the time dependence in a rapidly oscillating Hamiltonian. (English summary) **99f:70026**
Gaĭdideĭ, Yu. B. *see* **Johansson, Magnus; et al., 99e:70060**
Gámez, J. L. *see* **Ambrosetti, Antonio; et al., 99m:34103**
Guo, Qi² *see* **Wen, Shuangchun; et al., 99a:35244**
Holmes, Philip J. *see* **Mielke, Alexander; et al., 99f:35194**
Johansson, Magnus (*with* Aubry, Serge; Gaĭdideĭ, Yu. B.; Christiansen, Peter Leth; Rasmussen, K. Ø.) Dynamics of breathers in discrete nonlinear Schrödinger models. (English summary) **99e:70060**
Joly, J.-L. *see* **Donnat, P.; et al., 99m:35147**
Jones, Christopher K. R. T. (*with* Rubin, Jonathan E.) Existence of standing pulse solutions to an inhomogeneous reaction-diffusion system. (English summary) **99b:35094**
Kalla, Shyam L. *see* **Boyadzhiev, L. I.; et al., 99i:45013**

Kapitula, Todd Stability criterion for bright solitary waves of the perturbed cubic-quintic Schrödinger equation. (English summary) **99a:35238**
— (*with* Sandstede, Björn) Stability of bright solitary-wave solutions to perturbed nonlinear Schrödinger equations. (English summary) **99h:35199**
— Bifurcating bright and dark solitary waves for the perturbed cubic-quintic nonlinear Schrödinger equation. (English summary) **99g:35118**
Kosaka, Keiji *see* **More, Richard M., 99a:78005**
Kutz, J. Nathan *see* **Mielke, Alexander; et al., 99f:35194**
Levy, Ohad *see* **Bergman, David J., 99g:78031**
Liu, Songhao *see* **Wen, Shuangchun; et al., 99a:35244**
Maleck-Rassoul, Rysvan *see* **Di Menza, Laurent, 99g:78004**
Marshall, I. D. *see* **Gabitov, Ildar, 99f:70026**
Métivier, Guy *see* **Donnat, P.; et al., 99m:35147**
Mielke, Alexander (*with* Holmes, Philip J.; Kutz, J. Nathan) Global existence and uniqueness for an optical fibre laser model. (English summary) **99f:35194**
Moloney, Jerome V. *see* **Xin, Jack X., 99e:35217** *and* **Nonlinear optical materials, 99d:78001**
More, Richard M. (*with* Kosaka, Keiji) Wave-front curvature in geometrical optics. (English summary) **99a:78005**
Park, Q-Han (*with* Shin, Hyun-Jong) Painlevé analysis of the coupled nonlinear Schrödinger equation for polarized optical waves in an isotropic medium. (English summary) **99j:35208**
Parker, David F. *see* **Porubov, A. V., 99j:35210**
Peletier, L. A. (*with* Rotariu-Bruma, A. I.; Troy, William C.) A generalisation of the extended Fisher-Kolmogorov equation with an application to pulse propagation along optical fibers. (*see* **99d:35004**)
Pelinovsky, Dmitry E. *see* **Alexeeva, N. V.; et al., 99j:35197**
Porubov, A. V. (*with* Parker, David F.) Some general periodic solutions to coupled nonlinear Schrödinger equations. (English summary) **99j:35210**
Rasmussen, K. Ø. *see* **Johansson, Magnus; et al., 99e:70060**
Rauch, Jeffrey B. *see* **Donnat, P.; et al., 99m:35147**
Razgulin, A. V. On the analyticity of a nonlocal phase-to-intensity mapping. (Russian. Russian summary) **99c:78007**
Rotariu-Bruma, A. I. *see* **Peletier, L. A.; et al.,** (**99d:35004**)
Rubin, Jonathan E. *see* **Jones, Christopher K. R. T., 99b:35094**
Sandstede, Björn *see* **Kapitula, Todd, 99h:35199**
Shin, Hyun-Jong *see* **Park, Q-Han, 99j:35208**
Skubachevskiĭ, A. L. Bifurcation of periodic solutions for nonlinear parabolic functional-differential equations arising in optoelectronics. **99b:35206**
Timofeyev, I. *see* **Burtsev, S. P.; et al., 99g:34036**
Troy, William C. *see* **Peletier, L. A.; et al.,** (**99d:35004**)
Vitanov, Nikolay K. Breather and soliton wave families for the sine-Gordon equation. (English summary) **99h:35193**
Wen, Shuangchun (*with* Xu, Wencheng; Guo, Qi[2]; Liu, Songhao) Evolution of solitons of nonlinear Schrödinger equation with variable parameters. (English summary) **99a:35244**
Xin, Jack X. (*with* Moloney, Jerome V.) Global solutions and attractors of a Maxwell-Bloch Raman laser system in two transverse dimensions. (English summary) **99e:35217**
Xu, Wencheng *see* **Wen, Shuangchun; et al., 99a:35244**

Items listed otherwise than by author

Minneapolis, MN ★ Nonlinear optical materials. **99d:78001**
Nonlinear optical materials ★ Nonlinear optical materials. **99d:78001**
Workshop:
Nonlinear Optical Materials ★ Nonlinear optical materials. **99d:78001**

78A70 Biological applications [see also 92C30, 92J30]

Items with secondary classifications in 78A70

Nguyen, Dinh Thuc Some applications of tomography and Radon's transform. (English summary) **99m:92011**

78A97 Mathematically heuristic optics and electromagnetic theory (must also be assigned at least one other classification number in this section)

Items with secondary classifications in 78A97

Boillat, Guy (*with* Strumía, Alberto) On the Born-Infeld electron: spin effects. (English summary) **99j:78006**
Strumía, Alberto *see* **Boillat, Guy, 99j:78006**

78A99 Miscellaneous topics

Bergman, David J. (*with* Levy, Ohad) Nonlinear behavior and optical bistability in composite media. (English summary) **99g:78031**
Cherkaeva, Elena (*with* Golden, Kenneth M.) Inverse bounds for microstructural parameters of composite media derived from complex permittivity measurements. (English summary) **99j:78024**
Golden, Kenneth M. *see* **Cherkaeva, Elena, 99j:78024**
Gottlieb, Johannes *see* **Romanov, Vladimir Gavrilovich, 99g:78032**
Hide, Raymond *see* **Moroz, Irene M.; et al., 99e:78040**
Krutitskiĭ, P. A. (*with* Logginova, K. A.) On a boundary value problem that describes the Hall effect in a semiconductor with a periodic system of electrodes. (Russian. Russian summary) **99c:78019**
— On the electric current from electrodes in a magnetized semiconductor film. (English summary) **99h:78026**
Lang, Reinhard Über die Bestimmung von Leitfähigkeiten durch Oberflächenmessungen. (German summary) [On the determination of conductivity through surface measurements] **99f:78022**
Levy, Avraham (*with* Rubinstein, Jacob) Hilbert-space Karhunen-Loève transform with application to image analysis. (English summary) **99i:78026**
Levy, Ohad *see* **Bergman, David J., 99g:78031**
Logginova, K. A. *see* **Krutitskiĭ, P. A., 99c:78019**
Martin, Geoffrey (*with* Sterling, Ivan) Visualizing nonlinear electrodynamics. (English summary) (*see* **99g:68212**)
Moroz, Irene M. (*with* Hide, Raymond; Soward, Andrew M.) On self-exciting coupled Faraday disk homopolar dynamos driving series motors. (English summary) **99e:78040**
— *see also* **Skeldon, Anne C., 99e:78039**
Romanov, Vladimir Gavrilovich (*with* Gottlieb, Johannes) Joint inversion of transient electromagnetic and proton resonance surface data by coupled Maxwell's and Bloch's equations. (English summary) **99g:78032**
Rubinstein, Jacob *see* **Levy, Avraham, 99i:78026**
Skeldon, Anne C. (*with* Moroz, Irene M.) On a codimension-three bifurcation arising in a simple dynamo model. (English summary) **99e:78039**
Soward, Andrew M. *see* **Moroz, Irene M.; et al., 99e:78040**
Sterling, Ivan *see* **Martin, Geoffrey,** (**99g:68212**)

Items with secondary classifications in 78A99

Alabau, Fatiha On the existence of multiple steady-state solutions in the theory of electrodiffusion. I. The nonelectroneutral case. II. A constructive method for the electroneutral case. (English summary) **99c:34030**
Arsenović, D. *see* **Marić, Zvonko; et al., 99h:70013**
Atkinson, Kendall E. (*with* Chandler, Graeme) The collocation method for solving the radiosity equation for unoccluded surfaces. (English summary) **99j:45009**
Berglund, N. (*with* Kunz, Hervé) Memory effects and scaling laws in slowly driven systems. (English summary) **99m:34078**
Blake, John R. (*with* Keen, Giles S.; Tong, Robert P.; Wilson, Miles) Acoustic cavitation: the fluid dynamics of non-spherical bubbles. (English summary) **99m:76100**
— *see also* **Acoustic cavitation and sonoluminescence, 99k:76002**
Bobrov, Yu. K. (*with* Yurgelenas, Yu. V.) Application of high-resolution schemes in problems of modeling ionization waves in gas discharge. (Russian. Russian summary) **99g:76087**
Borcea, Liliana (*with* Papanicolaou, George C.) Network approximation for transport properties of high contrast materials. (English summary) **99f:73003**
Bourne, N. K. (*with* Field, John Edwin) Shock-induced collapse and luminescence by cavities. (English summary) (*see* **99k:76002**)
Božić, Mirjana *see* **Marić, Zvonko; et al., 99h:70013**
Brandenburg, Axel (*with* Moss, David Leonard; Soward, Andrew M.) New results for the Herzenberg dynamo: steady and oscillatory solutions. (English summary) **99d:76097**
— (*with* Moss, David Leonard; Soward, Andrew M.) Erratum: "New results for the Herzenberg dynamo: steady and oscillatory solutions" [R. Soc. Lond. Proc. Ser. A Math. Phys. Eng. Sci. **454** (1998), no. 1973, 1283–1300; MR 99d:76097].
Bryan, Kurt (*with* Vogelius, Michael) Effective behavior of clusters of microscopic cracks inside a homogeneous conductor. (English summary) **99f:73004**
Bukhgeĭm, A. L. (*with* Cheng, Jin[2]; Yamamoto, Masahiro) Uniqueness and stability for an inverse problem of determining a part of boundary. (English summary) **99m:35259**
Bush, Seth D. *see* **Rourke, David E., 99e:81276**
Champneys, A. R. Homoclinic orbits in reversible systems and their applications in mechanics, fluids and optics. (English summary) **99b:58169**
Chandler, Graeme *see* **Atkinson, Kendall E., 99j:45009**
Cheng, Jin[2] *see* **Bukhgeĭm, A. L.; et al., 99m:35259**
Degond, Pierre (*with* Génieys, Stéphane; Jüngel, Ansgar) A steady-state system in non-equilibrium thermodynamics including thermal and electrical effects. (English summary) **99i:35163**
Field, John Edwin *see* **Bourne, N. K.,** (**99k:76002**)
Freĭgeĭt, M. R. *see* **Pryakhina, O. D.; et al., 99c:73066**
Friedman, Avner (*with* Hu, Bei) Head-media interaction in magnetic recording. (English summary) **99c:76041**
Galka, A. (*with* Gambin, B.; Telega, Józef Joachim) Variational bounds on the effective moduli of anisotropic piezoelectric composites. (English summary) **99m:73061**
Gambin, B. *see* **Galka, A.; et al., 99m:73061**
Geisler, Reinhard *see* **Ohl, Claus-Dieter; et al.,** (**99k:76002**)
Génieys, Stéphane *see* **Degond, Pierre; et al., 99i:35163**
Guo, Xiu Lan *see* **Xing, Jia Sheng, 99i:35170**
Hager, William W. A discrete model for the lightning discharge. (English summary) **99e:78004**
Hao, Yue[1] *see* **Prosperetti, A., 99m:76103**
Hu, Bei *see* **Friedman, Avner, 99c:76041**
Jüngel, Ansgar *see* **Degond, Pierre; et al., 99i:35163**
Kanaev, A. V. (*with* McKinstrie, C. J.) Exact Green's function for a class of parametric instabilities. (English summary) **99g:76158**
Kasai, Hironori *see* **Tsutsumi, Masayoshi, 99k:82080**
Keen, Giles S. *see* **Blake, John R.; et al., 99m:76100**
Kunz, Hervé *see* **Berglund, N., 99m:34078**
Kurz, Thomas *see* **Ohl, Claus-Dieter; et al.,** (**99k:76002**)
Lauterborn, Werner *see* **Ohl, Claus-Dieter; et al.,** (**99k:76002**)
Levy, Ohad Weakly nonlinear conductivity and flicker noise near percolation. (English summary) **99d:82056**
Lindau, Olgert *see* **Ohl, Claus-Dieter; et al.,** (**99k:76002**)
Lipton, Robert The second Stekloff eigenvalue and energy dissipation inequalities for functionals with surface energy. (English summary) **99c:31014**
Longuet-Higgins, Michael S. Viscous streaming from an oscillating spherical bubble. (English summary) **99e:76110**
Marić, Zvonko (*with* Arsenović, D.; Božić, Mirjana) Magnetic top in terms of spinors—the classical system with constraints. (English summary) **99h:70013**
Martakov, S. V. Numerical solution of 1D inverse problem for Maxwell's equations by the optimization method. (English summary) **99h:78006**
Matula, Thomas J. Inertial cavitation and single-bubble sonoluminescence. (English summary) (*see* **99k:76002**)

McKinstrie, C. J. *see* **Kanaev, A. V., 99g:76158**
Melnik, K. N. *see* **Melnik, R. V. N., 99g:73094**
Melnik, R. V. N. (*with* Melnik, K. N.) A note on the class of weakly coupled problems of non-stationary piezoelectricity. (English summary) **99g:73094**
Miller, Steven D. A stochastic method for Brownian-like optical transport calculations in anisotropic biosuspensions and blood. (English summary) **99g:92010**
Moss, David Leonard *see* **Brandenburg, Axel; et al., 99d:76097**
Ohl, Claus-Dieter (*with* Kurz, Thomas; Geisler, Reinhard; Lindau, Olgert; Lauterborn, Werner) Bubble dynamics, shock waves and sonoluminescence. (English summary) (*see* **99k:76002**)
Papanicolaou, George C. *see* **Borcea, Liliana, 99f:73003**
Prosperetti, A. (*with* Hao, Yue[1]) Modelling of spherical gas bubble oscillations and sonoluminescence. (English summary) **99m:76103**
Pryakhina, O. D. (*with* Tukodova, O. M.; Freĭgeĭt, M. R.) Solution of nonstationary coupled electromechanical problems for layered media. (Russian. Russian summary) **99c:73066**
Rourke, David E. (*with* Bush, Seth D.) Inversion of the Bloch equations with T_2 relaxation: an application of the dressing method. (English summary) **99e:81276**
Sinkevich, O. A. Ball lightning and the problem of long-lived non-equilibrium formations. (English summary) **99b:76101**
Soward, Andrew M. *see* **Brandenburg, Axel; et al., 99d:76097**
Telega, Józef Joachim *see* **Gałka, A.; et al., 99m:73061**
Tong, Robert P. *see* **Blake, John R.; et al., 99m:76100**
Tsutsumi, Masayoshi (*with* Kasai, Hironori) The Meissner effect and the Ginzburg-Landau equations in the presence of an applied magnetic field. (English summary) **99k:82080**
Tukodova, O. M. *see* **Pryakhina, O. D.; et al., 99c:73066**
Vogelius, Michael *see* **Bryan, Kurt, 99f:73004**
Wang, Xiao Ping[1] On the existence of nontrivial solutions for a scalar "light-nematic" system and its Frederiks transition threshold. (English summary) **99f:35196**
Wilson, Miles *see* **Blake, John R.; et al., 99m:76100**
Wolfe, Peter Small vibrations of an elastic conductor in a magnetic field. (English summary) **99k:73107**
Xing, Jia Sheng (*with* Guo, Xiu Lan) Asymptotic behavior of time-dependent solutions to semiconductor equations. (English summary) **99i:35170**
Xue, Guo Liang A cost optimal parallel algorithm for computing force field in n-body simulations. (English summary) (*see* **99k:68008**)
Yakhno, V. G. Inverse problem for differential equations system of electromagnetoelasticity in linear approximation. **99f:73068**
Yamamoto, Masahiro *see* **Bukhgeim, A. L.; et al., 99m:35259**
Yurgelenas, Yu. V. *see* **Bobrov, Yu. K., 99g:76087**
Zinchenko, Alexander Z. Effective conductivity of loaded granular materials by numerical simulation. (English summary)

Items listed otherwise than by author

Acoustic cavitation and sonoluminescence ★ Acoustic cavitation and sonoluminescence. **99k:76002**

80–XX Classical thermodynamics, heat transfer {For thermodynamics of solids, see 73B30.}

80–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Items with secondary classifications in 80–00

(Cotta, Renato M.) *see* **Integral transform method in thermal and fluids sciences and engineering**

Items listed otherwise than by author

Integral transform method in thermal and fluids sciences and engineering ★ The integral transform method in thermal and fluids sciences and engineering.
Rio de Janeiro ★ The integral transform method in thermal and fluids sciences and engineering.
Workshop:
Integral Transforms ★ The integral transform method in thermal and fluids sciences and engineering.

80–01 Instructional exposition (textbooks, tutorial papers, etc.)

Items with secondary classifications in 80–01

Leisi, Hans Jörg ★ Klassische Physik. Band 2. (German. German summary) [Classical physics. Vol. 2] **99g:78001**
Lindenbaum, Samuel D. ★ Mathematical methods in physics. (English summary) **99g:00006**

80–02 Research exposition (monographs, survey articles)

Müller, Ingo (*with* Ruggeri, Tommaso) ★ Rational extended thermodynamics. (English summary) **99h:80001**
Ruggeri, Tommaso *see* **Müller, Ingo, 99h:80001**
(Struchtrup, Henning) *see* **Müller, Ingo, 99h:80001**
(Weiss, Wolf) *see* **Müller, Ingo, 99h:80001**

Items with secondary classifications in 80–02

Straub, Dieter ★ Alternative mathematical theory of non-equilibrium phenomena. **99c:76001**
Wilmański, Krzysztof ★ Thermomechanics of continua. (English summary) **99h:73011**

80–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 80–03

(Clausius, Rudolf) *see* **Wolff, Stefan L., 99k:01031**
(Laplace, P. S.) *see* **Saraiva, Luis M. R., 99a:01012**
(Lavoisier, A. L.) *see* **Saraiva, Luis M. R., 99a:01012**
Saraiva, Luis M. R. Laplace, Lavoisier and the quantification of heat. (English summary) **99a:01012**
Wolff, Stefan L. Clausius' Weg zur kinetischen Gastheorie. (English summary) [Clausius' path to kinetic gas theory] **99k:01031**
Yamalidou, Maria Molecular ideas in hydrodynamics. (English summary)

80–04 Explicit machine computation and programs (not the theory of computation or programming)

Taylor, Ross Thermodynamics with Maple. I. Symbolic computation. (English summary) **99f:80001**
– Thermodynamics with Maple. II. Numerical and graphical applications. (English summary) **99f:80002**

80–06 Proceedings, conferences, collections, etc.

(Dulikravich, G. S.) *see* **Inverse problems in engineering mechanics, 99k:80001**
(Tanaka, Masataka) *see* **Inverse problems in engineering mechanics, 99k:80001**

Items listed otherwise than by author

Inverse problems in engineering mechanics ★ Inverse problems in engineering mechanics. **99k:80001**
IUTAM Symposium:
Inverse Problems in Engineering Mechanics ★ Inverse problems in engineering mechanics. **99k:80001**
Nagano ★ Inverse problems in engineering mechanics. **99k:80001**

Items with secondary classifications in 80–06

(Argoul, P.) *see* **Variations of domain and free-boundary problems in solid mechanics, 99k:73004**
(Bullard, Jeffrey W.) *see* **Computational and mathematical models of microstructural evolution, 99k:73002**
(Chen, Long-Qing) *see* **Computational and mathematical models of microstructural evolution, 99k:73002**
(Frémond, Michel) *see* **Variations of domain and free-boundary problems in solid mechanics, 99k:73004**
(Kalia, Rajiv K.) *see* **Computational and mathematical models of microstructural evolution, 99k:73002**
(Nguyen Quoc Son) *see* **Variations of domain and free-boundary problems in solid mechanics, 99k:73004**
(Stoneham, A. Marshall) *see* **Computational and mathematical models of microstructural evolution, 99k:73002**

Items listed otherwise than by author

Computational and mathematical models of microstructural evolution ★ Computational and mathematical models of microstructural evolution. **99k:73002**
Conference:
Mathematical Chemistry ★ Girona 97 special issue. **99c:92002**
Girona ★ Girona 97 special issue. **99c:92002**
IUTAM Symposium:
Variations of Domain and Free-boundary Problems in Solid Mechanics ★ Variations of domain and free-boundary problems in solid mechanics. **99k:73004**
Paris ★ Variations of domain and free-boundary problems in solid mechanics. **99k:73004**
San Francisco, CA ★ Computational and mathematical models of microstructural evolution. **99k:73002**
Seminar:
Molecular Similarity ★ Girona 97 special issue. **99c:92002**
Special Issue:
Girona 97 ★ Girona 97 special issue. **99c:92002**
Symposium:
Computational and Mathematical Models of Microstructural Evolution ★ Computational and mathematical models of microstructural evolution. **99k:73002**
Variations of domain and free-boundary problems in solid mechanics ★ Variations of domain and free-boundary problems in solid mechanics. **99k:73004**

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Eldén, Lars (*with* Berntsson, Fredrik) Spectral and wavelet methods for solving an inverse heat conduction problem. (English summary) (*see* **99k:80001**)
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Prosser, R. (*with* Cant, R. S.) On the use of wavelets in computational combustion. (English summary) **99h:80002**

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Yu, H. H. (*with* Suo, Zhigang) A finite element method for simulating interface motion. (English summary) (*see* **99k:73002**)
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Bruel, P. *see* **Corvellec, C.; et al., 99i:80013**
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Chen, Chieh Li (*with* Liu, Yung-Chin) Differential transformation technique for steady nonlinear heat conduction problems. (English summary)
Chen, Zhi Ming[1] (*with* Jiang, Lishang) Approximation of a two-phase continuous casting Stefan problem. (English summary) **99f:80004**
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Garbey, M. (*with* Tromeur-Dervout, D.) A new parallel solver for the nonperiodic incompressible Navier-Stokes equations with a Fourier method: application to frontal polymerization. (English summary) **99g:76105**
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Han, Weimin (*with* Jensen, Søren S.; Shimanskiĭ, I. V.) The Kačanov method for some nonlinear problems. (English summary) **99d:65316**
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Kalashnikov, A. S. Discretization and nonlinear effects in mathematical models of heat conduction theory. (Russian. Russian summary) **99e:80002**
Klar, Axel (*with* Siedow, N.) Boundary layers and domain decomposition for radiative heat transfer and diffusion equations: applications to glass manufacturing process. (English summary) **99d:80002**
Klein, Rupert (*with* Geratz, Karl Josef; Terhoeven, Peter; Munz, Claus-Dieter; Roller, Sabine; Denet, Bruno; Searby, Geoffrey) Numerical techniques for multi-scale weakly compressible reactive flows. (English summary) **99j:76091**
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Konstantinov, A. B. (*with* Staroselsky, Ilya; Orszag, Steven A.; Yakhot, Victor) Renormalization group-based transport modeling of premixed turbulent combustion. I. Incompressible deflagration model. (English summary) **99k:80009**
— (*with* Orszag, Steven A.; Staroselsky, Ilya; Yakhot, Victor) Renormalization group-based transport modeling of premixed turbulent combustion. II. Finite density gradient and direct heat release. (English summary) **99k:80010**
Křížek, Michal (*with* Liu, Li Ping[2]) Finite element approximation of a nonlinear heat conduction problem in anisotropic media. (English summary) **99h:80005**
Laforgue, Jacques G. L. (*with* O'Malley, Robert E., Jr.; Ward, Michael J.) Metastable travelling-wave solutions of singularly-perturbed reaction-diffusion equations. (English summary) **99h:80011**
Lagoudas, Dimitris C. (*with* Ding, Zhong Hai) Numerical computation of metal oxidation problems on bounded domains. (English summary) **99a:80004**
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Mackerle, Jaroslav Finite elements and boundary elements applied in phase change, solidification and melting problems. A bibliography (1996–1998). (English summary)
Meguid, S. A. (*with* Hu, Guang Di) A new finite element for treating plane thermomechanical heterogeneous solids. (English summary) **99i:73071**
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Reddy, J. N. (*with* Gartling, D. K.) ★ The finite element method in heat transfer and fluid dynamics. **99a:80003**
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Tabarrok, Behrouz (*with* Qin, Zhu; Stylianou, M.) Generalized conservation checks in finite element analysis. (English summary) **99h:73082**
Tang, Shao Wu (*with* Feng, Zhen Xing; Li, Zheng Xiu) An application of the boundary element method to problems of transient heat conduction with moving boundary. (Chinese. English and Chinese summaries)
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Veremeenko, T. V. (*with* Gromyko, G. F.; Zayats, G. M.) Mathematical modeling of heat transfer under the interaction of a molten particle with the surface. (Russian. Russian summary)
Vermolen, Fred (*with* Vuik, Kees) A numerical method to compute the dissolution of second phases in ternary alloys. (English summary) **99d:80008**
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Wang, Ping[3] (*with* Ferraro, R. D.) Parallel multigrid finite volume computation of three-dimensional thermal convection. (English summary)
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Zgurovskiĭ, M. Z. (*with* Novikov, A. N.) Modeling of unilateral physical processes of diffusion and of heat and mass exchange. (Russian. English, Russian and Ukrainian summaries) **99d:80004**
Zhong, Xiaolin High-order finite-difference schemes for numerical simulation of hypersonic boundary-layer transition. (English summary) **99e:76085**
Zhu, Jian Ping[2] *see* **Zhuang, Xinglai, 99k:65088**
Zhuang, Xinglai (*with* Zhu, Jian Ping[2]) An efficient numerical algorithm with adaptive regularization for parameter estimations. (English summary) **99k:65088**

80A05 Foundations

Alt, Hans Wilhelm An evolution principle and the existence of entropy. ODE case. (English summary) **99g:80002**
— An evolution principle and the existence of entropy. First order systems. (English summary) **99g:80003**
Ansorge, R. (*with* Sonar, Thomas) Informationsverlust, abstrakte Entropie und die mathematische Beschreibung des zweiten Hauptsatzes der Thermodynamik. (English and German summaries) [Information loss, abstract entropy and the mathematical description of the second fundamental law of thermodynamics] **99b:80003**
Bergmann, Peter G. Relativistic theories of heat. (English summary) **99h:80003**
Chen, Masao R. Y. (*with* Tseng, Hsen Che) On the second law of thermodynamics and contact geometry. (English summary) **99c:80001**
Lieb, Elliott H. (*with* Yngvason, Jakob) A guide to entropy and the second law of thermodynamics. **99c:80002**
Maslov, V. P. Axiomatics of thermodynamics and idempotent analysis. **99a:80001**
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80A10 Classical thermodynamics

Ascoli, Sergio (*with* Malvestuto, Vincenzo; Diodato, Lorenzo) On the problem of thermodynamic equilibrium in the presence of internal adiabatic constraints. (English summary)
Bhalekar, Anil A. *see* **García-Colín, Leopoldo S.**
Bisio, Giacomo On the formulation of the entropy production rate in the domain of "generalized thermodynamics". (Italian. English, French, German and Italian summaries)
Chen, Masao R. Y. On the geometric structure of thermodynamics. (English summary) **99j:80002**
Diodato, Lorenzo *see* **Ascoli, Sergio; et al.**
Dunning-Davies, J. (*with* Lavenda, B. H.) Problems with the entropy concept in modern applications of thermodynamics. (English and French summaries) **99i:80003**
dell'Erba, Ramiro (*with* dell'Isola, Francesco; Rotoli, Giacomo) The influence of the curvature dependence of the surface tension on the geometry of electrically charged menisci. (English summary)
García-Colín, Leopoldo S. (*with* Bhalekar, Anil A.) Recent trends in irreversible thermodynamics. (English summary)
dell'Isola, Francesco *see* **dell'Erba, Ramiro; et al.**
Jurkowski, Jacek The inverse problem for a linear vector field in thermodynamics. (English summary) **99g:80004**
Lavenda, B. H. *see* **Dunning-Davies, J., 99i:80003**
Lieb, Elliott H. (*with* Yngvason, Jakob) The physics and mathematics of the second law of thermodynamics. (English summary) **99m:80006**
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Nulton, James D. *see* **Pathria, Raj K.; et al., 99a:80002**
Owen, David Ross (*with* Pedregal, Pablo) An elementary proof of the fundamental property of a perfect gas. (English summary) **99i:80004**
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Yngvason, Jakob *see* **Lieb, Elliott H., 99m:80006**

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Degond, Pierre (*with* Génieys, Stéphane; Jüngel, Ansgar) A steady-state system in non-equilibrium thermodynamics including thermal and electrical effects. (English summary) **99i:35163**
Fabrizio, Mauro (*with* Gentili, Giorgio) On thermodynamics of some phase change models. (English summary) **99d:80006**
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Maslov, V. P. Axiomatics of thermodynamics and idempotent analysis. **99a:80001**
Nochetto, Ricardo H. (*with* Schmidt, Alfred; Verdi, Claudio) Error control for phase change problems. (*see* **99k:73004**)
Pennisi, S. A fourth order approach to relativistic extended thermodynamics. (English summary) **99m:80005**
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80A15 Thermodynamics of mixtures

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80A20 Heat and mass transfer, heat flow

Al-Khayat, Isa A. Heat conduction and quantum mechanics. (English summary) **99b:80004**
Berrone, Lucio R. (*with* Mannucci, Paola) Study of the boundary conditions describing the contact with a well-stirred fluid. (English summary) **99b:80005**
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De Lillo, S. (*with* Di Gregorio, G.) Nonlinear heat conduction with time-dependent flux. (English summary) **99j:80004**
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Wichman, Indrek S. (*with* Ramadan, Bassem) Theory of attached and lifted diffusion flames. (English summary) **99g:80010**
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Zhong, R. *see* **Boratav, Oluş N.; et al., 99e:80004**

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Akdoğu, Evrim *see* **Bricher, Stephen, 99h:35083**
Ansorge, R. (*with* Sonar, Thomas) Informationsverlust, abstrakte Entropie und die mathematische Beschreibung des zweiten Hauptsatzes der Thermodynamik. (English and German summaries) [Information loss, abstract entropy and the mathematical description of the second fundamental law of thermodynamics] **99b:80003**
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Benkhaldoun, F. *see* **Elmahi, I.; et al., 99k:80003**
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Bricher, Stephen (*with* Akdoğu, Evrim) The asymptotic behavior for gaseous ignition models. (English summary) **99h:35083**
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Colombo, Fabrizio (*with* Lorenzi, A.) An inverse problem in the theory of combustion of materials with memory. (English summary) **99k:35189**
Crutchfield, W. Y. *see* **Barenblatt, G. I.; et al., 99k:76121**
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Elmahi, I. (*with* Benkhaldoun, F.; Vilsmeier, R.; Gloth, O.; Patschull, A.; Hänel, D.) Finite volume simulation of a droplet flame ignition on unstructured meshes. (English

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Souganidis, Panagiotis E. *see* **Majda, Andrew J., 99f:35090**

Sritharan, S. S. *see* **Fattorini, H. O., 99d:49039**

Suzuki, Takashi[1] *see* **Sakaguchi, Shigeru, 99d:35072**

Terhoeven, Peter *see* **Klein, Rupert; et al., 99j:76091**

Tesei, Alberto *see* **Hanouzet, Bernard; et al., 99b:76046**

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Verweij, Robbert L. (*with* Twerda, Aris; Peeters, Tim W. J.) Parallel computing for reacting flows using adaptive grid refinement. **99g:76118**

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80A30 Chemical kinetics [see also 92C45, 92E20]

Heinrich, Reinhart *see* **Wilhelm, Thomas; et al., 99b:80011**

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Wilhelm, Thomas (*with* Schuster, Stefan; Heinrich, Reinhart) Kinetic and thermodynamic analyses of the reversible version of the smallest chemical reaction system with Hopf bifurcation. (English summary) **99b:80011**

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Billing, Gert D. (*with* Mikkelsen, Kurt V.) ★ Advanced molecular dynamics and chemical kinetics. **99b:81283**

Blouza, Adel (*with* Coquel, Frédéric; Hamel, François) Réduction algorithmique de systèmes cinétiques raides. (English and French summaries) [Algorithmic reduction process for stiff kinetic systems] **99i:80001**

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Lamb, Wilson *see* **McLaughlin, D. J.; et al., 99i:35166**; **99i:35167** *and* **99i:35168**

McBride, A. C. *see* **McLaughlin, D. J.; et al., 99i:35166**; **99i:35167** *and* **99i:35168**

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— (*with* Lamb, Wilson; McBride, A. C.) Existence and uniqueness results for the non-autonomous coagulation and multiple-fragmentation equation. (English summary) **99i:35168**

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Natesan, S. (*with* Ramanujam, N.) A "booster method" for singular perturbation problems arising in chemical reactor theory. (English summary) **99i:65078**

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Tóth, János *see* **Szili, László, 99d:92011**

Wang, Yuan Di Behavior of solutions for a model in heterogeneous catalytic reaction-diffusion. (English summary) **99m:35123**

80A32 Chemically reacting flows [see also 92C45, 92E20]

Andreucci, D. (*with* Fasano, Antonio; Ricci, Riccardo) A continuous model for Ziegler-Natta polymerization. (*see* **99k:73004**)

Braithwaite, M. (*with* Lynch, P. M.; Parker, I. B.; Jones, A. F.; Wilson, Simon David Redfern) Compressional heating of isolated gas bubbles in reactive media. (English summary) **99j:80009**

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Fedotov, Sergei Traveling waves in a reaction-diffusion system: diffusion with finite velocity and Kolmogorov-Petrovskii-Piskunov kinetics. (English summary) **99f:80008**

Giovangigli, Vincent (*with* Massot, Marc) The local Cauchy problem for multicomponent reactive flows in full vibrational non-equilibrium. (English summary) **99g:80011**

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Müller, Ingo *see* **Kremer, G. M., 99h:80014**

Parker, I. B. *see* **Braithwaite, M.; et al., 99j:80009**

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Amundson, N. R. (*with* Morano, Eric; Sanders, Richard) Techniques for the numerical solution of steady reaction-diffusion systems employing Stefan-Maxwell diffusion. (English summary) **99f:65140**

Bhardwaj, Dheeraj *see* **Shankar, Rama, 99j:76144**

Böhm, Michael (*with* Devinny, Joseph; Jahani, Fereidoun; Rosen, Gary) On a moving-boundary system modeling corrosion in sewer pipes. (English summary) **99b:80007**

Bonnard, B. (*with* Launay, G.) Time minimal control of batch reactors. (English summary) **99j:49077**

Brüggemann, D. *see* **Gerlinger, P.; et al., 99e:80001**

Cabral, Marco (*with* Costa, Bruno; Temam, Roger; Wang, Shou Hong) The primitive equations of the atmosphere with chemistry. (English summary) **99f:86012**

(Castaing, Bernard) *see* **Hydrodynamics and nonlinear instabilities, 99i:76001**

Chaturvedi, R. *see* **Pandey, Kanti, 99i:76084**
Cherepanov, Genady P. Two-dimensional convective heat/mass transfer for low Prandtl and any Peclet numbers. (English summary) **99a:76140**
Costa, Bruno *see* **Cabral, Marco; et al., 99i:86012**
Devinny, Joseph *see* **Böhm, Michael; et al., 99b:80007**
Ding, Shi Jin (*with* Tao, You Shan; Yin, Hong-Ming) A chemical diffusion process with reaction taking place at free boundary. (English summary) **99d:35183**
Donskoi, E. *see* **Liu, Fa Wang; et al., 99g:80001**
Dorodnitsyn, L. V. Kinetical-consistent algorithms for simulation of reactive flows. (English summary) **99g:65090**
Druguet, Marie-Claude *see* **Sanders, Richard; et al., 99g:76095**
Farkas, Gyula Local controllability of reactions. (English summary) **99j:92031**
(Fauve, Stephan) *see* **Hydrodynamics and nonlinear instabilities, 99i:76001**
Focant, S. (*with* Gallay, Thierry) Existence and stability of propagating fronts for an autocatalytic reaction-diffusion system. (English summary) **99d:35082**
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Giovangigli, Vincent (*with* Massot, Marc) Asymptotic stability of equilibrium states for multicomponent reactive flows. (English summary) **99c:35197**
Gobbert, Matthias K. (*with* Ringhofer, Christian A.) An asymptotic analysis for a model of chemical vapor deposition on a microstructured surface. (English summary) **99a:76043**
Godfrey, Andrew G. Using sensitivities for flow analysis. (English summary) **99e:76075**
(Godrèche, Claude) *see* **Hydrodynamics and nonlinear instabilities, 99i:76001**
Gudkov, V. V. An analytic approach to the description of combustion waves that propagate at a constant velocity. (Russian. Russian summary) **99a:35117**
(Hakim, Vincent) *see* **Hydrodynamics and nonlinear instabilities, 99i:76001**
Hevia, Héctor Transitional values of graphs. (English summary) **99b:05048**
Hilhorst, D. *see* **Abergel, F.; et al.**
Holstad, Astrid Modelling subsurface coupled chemical reactions and fluid flow over long time periods. (English summary) (*see* **99h:34001**)
(Huerre, Patrick) *see* **Hydrodynamics and nonlinear instabilities, 99i:76001**
Iida, Masato (*with* Ninomiya, Hirokazu) Nonlinear boundary value problems related to some chemical reactions on the interface. (English summary) (*see* **99f:00026**)
Issard-Roch, Françoise *see* **Abergel, F.; et al.**
Jahani, Fereidoun *see* **Böhm, Michael; et al., 99b:80007**
James, François Convergence results for some conservation laws with a reflux boundary condition and a relaxation term arising in chemical engineering. (English summary) **99h:65155**
(Joulin, G.) *see* **Hydrodynamics and nonlinear instabilities, 99i:76001**
Kennedy, Lawrence A. (*with* Fridman, A. A.; Saveliev, A. V.) Superadiabatic combustion in porous media: wave propagation, instabilities, new type of chemical reactor. (English summary)
Knio, Omar M. *see* **Najm, Habib N.; et al., 99b:80002**
Launay, G. *see* **Bonnard, B., 99j:49077**
Leach, J. A. *see* **McCabe, P. M.; et al., 99k:35092**
Liu, Fa Wang (*with* McElwain, D. L. S.; Donskoi, E.) The use of a modified Petrov-Galerkin method for gas-solid reaction modelling. (English summary) **99g:80001**
Malham, Simon (*with* Xin, Jack X.) Global solutions to a reactive Boussinesq system with front data on an infinite domain. (English summary) **99h:35177**
(Manneville, Paul) *see* **Hydrodynamics and nonlinear instabilities, 99i:76001**
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McCabe, P. M. (*with* Leach, J. A.; Needham, D. J.) The evolution of travelling waves in fractional order autocatalysis with decay. I. Permanent form travelling waves. (English summary) **99k:35092**
McElwain, D. L. S. *see* **Liu, Fa Wang; et al., 99g:80001**
Merkin, John H. *see* **Satnoianu, Razvan A.; et al., 99k:76057**
Mogk, Georg Hybride Modellierung reaktiver Systeme unter Nutzung von funktionalem Vorwissen. [Hybrid modelling of reactive systems by using functional prior knowledge]
Moin, Parviz *see* **Pierce, Charles D., 99g:76078**
Morano, Eric *see* **Amundson, N. R.; et al., 99f:65140** *and* **Sanders, Richard; et al., 99g:76095**
Najm, Habib N. (*with* Wyckoff, Peter S.; Knio, Omar M.) A semi-implicit numerical scheme for reacting flow. I. Stiff chemistry. (English summary) **99b:80002**
Needham, D. J. *see* **McCabe, P. M.; et al., 99k:35092**
Ninomiya, Hirokazu *see* **Iida, Masato, (99f:00026)**
Orszag, Steven A. *see* **Tomboulides, Ananias G., 99i:76130**
Pandey, Kanti (*with* Chaturvedi, R.) Certain aspects of compression pulses in steady non-equilibrium flow over a concave wall. **99i:76084**
Pierce, Charles D. (*with* Moin, Parviz) A dynamic model for subgrid-scale variance and dissipation rate of a conserved scalar. (English summary) **99g:76078**
Ringhofer, Christian A. *see* **Gobbert, Matthias K., 99a:76043**
Rosen, Gary *see* **Böhm, Michael; et al., 99b:80007**
(Rossi, Maurice) *see* **Hydrodynamics and nonlinear instabilities, 99i:76001**
Sanders, Richard (*with* Morano, Eric; Druguet, Marie-Claude) Multidimensional dissipation for upwind schemes: stability and applications to gas dynamics. (English summary) **99g:76095**
— *see also* **Amundson, N. R.; et al., 99f:65140**
Satnoianu, Razvan A. (*with* Merkin, John H.; Scott, Stephen K.) Spatio-temporal structures in a differential flow reactor with cubic autocatalator kinetics. (English summary) **99k:76057**
Saveliev, A. V. *see* **Kennedy, Lawrence A.; et al.**
Scheid, J. F. *see* **Abergel, F.; et al.**
Scott, Stephen K. *see* **Satnoianu, Razvan A.; et al., 99k:76057**
Shankar, Rama (*with* Bhardwaj, Dheeraj) On similarity solution for reactive shock in magnetogasdynamics. (English summary) **99j:76144**
Sleeman, B. D. *see* **Zhao, Xiao-Qiang, 99j:35112**
Stoll, P. *see* **Gerlinger, P.; et al., 99e:80001**
Tao, You Shan *see* **Ding, Shi Jin; et al., 99d:35183**
Temam, Roger *see* **Cabral, Marco; et al., 99i:86012**
Tomboulides, Ananias G. (*with* Orszag, Steven A.) A quasi-two-dimensional benchmark problem for low Mach number compressible codes. (English summary) **99i:76130**
Tonegawa, Yoshihiro On the regularity of a chemical reaction interface. **99i:35058**
Umezu, Kenichiro Semilinear elliptic boundary value problems in chemical reactor theory. (Japanese. English summary) (*see* **99d:35005**)
(Vidal, P.) *see* **Hydrodynamics and nonlinear instabilities, 99i:76001**
Wang, Shou Hong *see* **Cabral, Marco; et al., 99i:86012**
Wyckoff, Peter S. *see* **Najm, Habib N.; et al., 99b:80002**
Xin, Jack X. *see* **Malham, Simon, 99h:35177**
Yin, Hong-Ming *see* **Ding, Shi Jin; et al., 99d:35183**
Zhao, Xiao-Qiang (*with* Sleeman, B. D.) Target patterns and spiral waves in reaction-diffusion systems with limit cycle kinetics and weak diffusion. (English summary) **99j:35112**
Zhong, Xiaolin High-order finite-difference schemes for numerical simulation of hypersonic boundary-layer transition. (English summary) **99e:76085**

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80A50 Chemistry (general) [See mainly 92Exx]

Mezey, Paul G. Generalized chirality and symmetry deficiency. (English summary) **99c:80008**

Items with secondary classifications in 80A50

Natesan, S. (*with* Ramanujam, N.) A "booster method" for singular perturbation problems arising in chemical reactor theory. (English summary) **99i:65078**
Ramanujam, N. *see* **Natesan, S., 99i:65078**

80A97 Mathematically heuristic classical thermodynamics (must also be assigned at least one other classification number in this section)

Items with secondary classifications in 80A97

Fabrizio, Mauro (*with* Gentili, Giorgio; Reynolds, D. W.) On rigid linear heat conductors with memory. (English summary) **99i:80006**
Gentili, Giorgio *see* **Fabrizio, Mauro; et al., 99i:80006**
Reynolds, D. W. *see* **Fabrizio, Mauro; et al., 99i:80006**

80A99 Miscellaneous topics

Aris, R. Dissections, transgressions, and perilous paths. (English summary) **99h:80015**
Bernoff, Andrew J. (*with* Bertozzi, Andrea L.; Witelski, Thomas P.) Axisymmetric surface diffusion: dynamics and stability of self-similar pinchoff. (English summary) **99k:80013**
Bertozzi, Andrea L. *see* **Bernoff, Andrew J.; et al., 99k:80013**
Davis, S. H. *see* **Schulze, T. P., 99m:80018**
Schulze, T. P. (*with* Davis, S. H.) Shear stabilization of a solidifying front: weakly nonlinear analysis in a long-wave limit. (English summary) **99m:80018**
Sieniutycz, Stanisław Thermodynamic and relativistic aspects of thermal inertia in fluids. (English summary) **99j:80010**
Witelski, Thomas P. *see* **Bernoff, Andrew J.; et al., 99k:80013**

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Abd-el-Malek, Mina B. Application of the group-theoretical method to physical problems. (English summary) **99d:35012**
Aitchison, Peter *see* **Li, Henian; et al., 99k:86002**
Bernussou, Jacques *see* **Garcia, Germain, (99h:00027)**
Berrone, Lucio R. (*with* Galles, C. D.) Mathematical inequalities via a thermodynamic heuristic. (English summary) **99c:26022**
Galles, C. D. *see* **Berrone, Lucio R., 99c:26022**
Garcia, Germain (*with* Bernussou, Jacques) Identification of the dynamics of a lead acid battery by a diffusive model. (English and French summaries) (*see* **99h:00027**)
Lamb, Wilson *see* **McLaughlin, D. J.; et al., 99b:45006**
Li, Henian (*with* Woodbury, Allan; Aitchison, Peter) Application of the unsymmetric Lanczos method to radionuclide decay-chain transport in porous media. (English summary) **99k:86002**
McBride, A. C. *see* **McLaughlin, D. J.; et al., 99b:45006**
McLaughlin, D. J. (*with* Lamb, Wilson; McBride, A. C.) Existence results for non-autonomous multiple-fragmentation models. (English summary) **99b:45006**
Rakotomanana, Lalaonirina R. Contribution à la modélisation géométrique et thermodynamique d'une classe de milieux faiblement continus. [Contribution to the geometric and thermodynamical modelling of a class of weakly continuous media] **99e:73020**
Woodbury, Allan *see* **Li, Henian; et al., 99k:86002**

81–XX Quantum theory

81–01 Instructional exposition (textbooks, tutorial papers, etc.)

Ballentine, Leslie E. ★ Quantum mechanics. **99k:81001**
(Bromley, D. Allan) *see* **Greiner, Walter**, **99g:81001**
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Kaushal, R. S. ★ Classical and quantum mechanics of noncentral potentials. (English summary) **99k:81003**
Landsman, N. P. Essay review: *Quantum mechanics on phase space* [Kluwer Akad. Publ., Dordrecht, 1996; MR 97j:81004] by F. E. Schroeck, Jr.
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Padmanabhan, T. Aspects of quantum field theory. (*see* **99a:83002**)
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Byrd, Mark (*with* Sudarshan, E. C. G.) SU(3) revisited. (English summary) **99m:81071**
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— Standard expressions for generator matrices. (*see* **99h:81226**)
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81–04 Explicit machine computation and programs (not the theory of computation or programming)

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81–05 Experimental papers

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Knill, Emanuel *see* **Laflamme, R.; et al., 99m:81036**
Laflamme, R. (*with* Knill, Emanuel; Zurek, Wojciech Hubert; Catasti, P.; Mariappan, S. V. S.) NMR Greenberger-Horne-Zeilinger states. (English summary) **99m:81036**
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81–06 Proceedings, conferences, collections, etc.

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81U05 2-body potential scattering theory [see also 34E20 for WKB methods]

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81U20 S-matrix theory, etc.

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81U30 Dispersion theory, dispersion relations

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81U40 Inverse scattering problems [see also 58F07, 58F19]

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— Large-N QCD and q-deformed quantum field theories. (English summary) (*see* **99h:81006**)
Armoni, Adi (*with* Frishman, Yitzhak; Sonnenschein, Jacob; Trittmann, U.) The spectrum of multi-flavor QCD_2 and the non-abelian Schwinger equation. (English summary) **99h:81224**
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Ebert, Dietmar (*with* Zhukovskiĭ, V. Ch.; Vshivtsev, A. S.) Temperature behaviour of a SU(2) gauge theory with external fields. (*see* **99i:81005**)
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Evans, Nick Softly broken SQCD: in the continuum, on the lattice, on the brane. (English summary) **99c:81236**
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Les Houches ★ Fluctuations quantiques. [Quantum fluctuations] **99k:81356**
NATO Advanced Study Institute:
Quantum Fluctuations ★ Fluctuations quantiques. [Quantum fluctuations] **99k:81356**
Quantum fluctuations ★ Fluctuations quantiques. [Quantum fluctuations] **99k:81356**
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Barchielli, Alberto (*with* Zucca, Fabio) On a class of stochastic differential equations used in quantum optics. (English summary) **99g:81108**
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Bose, Subir Kumar Quantum optical properties of the radiation field and the coherent states of the quantum groups $SU_q(2)$ and $SU_q(1, 1)$. (English summary) (*see* **99b:00016**)
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(Korobkin, V. V.) *see* **Interaction of superhigh-intensity laser radiation with a plasma, 99a:82094**
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81V99 None of the above, but in this section

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82–XX Statistical mechanics, structure of matter

82–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

(Bar'yakhtar, V. G.) *see* **Dictionary: Solid state physics, 99c:82001**

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Dictionary:
Solid state physics ★ Физика твердого тела. Энциклопедический словарь. Том 1. A–O. (Russian) [Solid state physics. Encyclopedic dictionary. Vol. 1. A–O] **99c:82001**

82–01 Instructional exposition (textbooks, tutorial papers, etc.)

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(Filk, Thomas) *see* **Honerkamp, Josef, 99j:82001**
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Fisher, A. J. *see* **Binney, J. J.; et al., 99h:82030**
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(Musiał, Grzegorz) *see* **Binney, J. J.; et al., 99h:82030**
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Zagoskin, Alexandre M. ★ Quantum theory of many-body systems. (English summary) **99g:81250**

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(Clausius, Rudolf) *see* **Wolff, Stefan L., 99k:01031**
Cohen, E. G. D. Bogolubov and kinetic theory: the Bogolubov equations. (English summary) **99a:82076**
Costantini, Domenico (*with* Garibaldi, Ubaldo) A probabilistic foundation of elementary particle statistics. I. (English summary) **99b:82005**
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Obituary:
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82–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 82–04

Blöte, Henk W. J. *see* **Knops, Yolanda M. M.; et al., 99e:82036**
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82–06 Proceedings, conferences, collections, etc.

(Arkeryd, Leif) *see* **Proceedings: Conference on Transport Theory, 99b:82003** *and* **99d:82004**
(Bamón, Rodrigo) *see* **Disordered systems, 99b:82002**
(van Beijeren, Henk) *see* **Fundamental problems in statistical mechanics, 99d:82003**
(Eßler, Fabian H. L.) *see* **Exactly solvable models of strongly correlated electrons, 99a:82003**
(Gambaudo, Jean-Marc) *see* **Disordered systems, 99b:82002**
(Ge, Mo Lin) *see* **Statistical models, Yang-Baxter equation and related topics, and Symmetry, statistical mechanical models and applications, 99f:82002**
(Klümper, Andreas) *see* **Field theoretical tools for polymer and particle physics, 99k:82001**
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(Smoluchowski, Marian) *see* **Symposium: Statistical Physics, 99d:82005**
(Whittington, Stuart G.) *see* **Numerical methods for polymeric systems, 99f:82001**
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Dynamical and Disordered Systems ★ Disordered systems. **99b:82002**
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(Benkadda, Sadruddin) *see* **Chaos, kinetics and nonlinear dynamics in fluids and plasmas, 99d:00014**
(Golden, Kenneth M.) *see* **Mathematics of multiscale materials, 99c:73001**
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(Horváth, Zalán) *see* **Conformal field theories and integrable models, 99b:81001**
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(Jerome, Joseph W.) *see* **Modelling and computation for applications in mathematics, science, and engineering, 99k:00033**
(Lodge, Timothy) *see* **Topology and geometry in polymer science, 99e:82103**
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(Sumners, De Witt) *see* **Topology and geometry in polymer science, 99e:82103**
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Lecture Notes in Physics ★ Conformal field theories and integrable models. **99b:81001**
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Mathematics of multiscale materials ★ Mathematics of multiscale materials. **99c:73001**
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School:
Conformal Field Theories and Integrable Models ★ Conformal field theories and integrable models. **99b:81001**
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82–08 Computational methods

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82B27 Critical phenomena

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82B35 Irreversible thermodynamics, including Onsager-Machlup theory [see also 92E20]

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82B99 Miscellaneous topics

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82Cxx Time-dependent statistical mechanics (dynamic and nonequilibrium)

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82C10 Quantum dynamics and nonequilibrium statistical mechanics (general)

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Chebotarëv, A. M. (*with* Fagnola, Franco) Sufficient conditions for conservativity of minimal quantum dynamical semigroups. (English summary) **99d:81064**
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Gardiner, C. W. *see* **Zoller, Peter, (99k:81356)**
Gazeau, Jean Pierre (*with* Graffi, S.) Quantum harmonic oscillator: a relativistic and statistical point of view. (Italian summary) **99f:81044**
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Hudetz, Thomas Quantum dynamical entropy revisited. (English summary) **99k:46119**
Imagire, T. (*with* Saito, Takesi; Nemoto, Kae; Arimitsu, Toshihico) A comment on the Shibata-Hashitsume Langevin equation: is it of the Stratonovich type or of the Itô type? (English summary) **99j:82059**
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Nemoto, Kae *see* **Imagire, T.; et al., 99j:82059**
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Quezada Batalla, Roberto *see* **García Corte, Julio César, 99h:81106** *and* **Chebotarëv, A. M.; et al., 99m:81112**
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Sewell, Geoffrey L. Non-equilibrium phase transitions, coherence and chaos. (English summary) **99k:82055**
Tarasov, V. E. Quantum dissipative systems. III. Definition and algebraic structure. (Russian. English and Russian summaries) **99f:81112**
Trucks, Mathias A KMS-like state of Hadamard type on Robertson-Walker spacetimes and its time evolution. (English summary) **99j:81128**
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Zoller, Peter (*with* Gardiner, C. W.) Quantum noise in quantum optics: the stochastic Schrödinger equation. (*see* **99k:81356**)

82C20 Dynamic lattice systems (kinetic Ising, etc.)

Aliev, M. A. Exact solution for the generating function of correlators of the kinetic Glauber-Ising model. (English summary) **99b:82067**
— *see also* **Kuchanov, S. I., 99c:82046**
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Guo, Bo Ling (*with* Ding, Shi Jin) Initial-boundary value problem for the Landau-Lifshitz system. II. Uniqueness. (English summary) **99j:82056**
Komineas, S. (*with* Papanicolaou, N.) Vortex dynamics in two-dimensional antiferromagnets. (English summary) **99b:82068**
Kuchanov, S. I. (*with* Aliev, M. A.) Correlation functions in a one-dimensional kinetic Ising model. (English summary) **99c:82046**
Lu, Bai-nian (*with* Ma, Xiao Long) An explicit difference scheme for the continuous mean field Ising model. (Chinese. English and Chinese summaries) **99a:82060**
Ma, Xiao Long *see* **Lu, Bai-nian, 99a:82060**
Maille, Sophie A Girsanov formula in the Ising model: existence of a density. (English summary) **99b:82069**
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Stinchcombe, R. B. (*with* Santos, Jaime Eduardo; Grynberg, M. D.) Non-universal dynamics of staggered non-equilibrium particle systems and Ising chains. (English summary) **99b:82070**
Wattis, Jonathan A. D. Stationary breather modes of generalized nonlinear Klein-Gordon lattices. (English summary) **99b:82071**

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Barles, Guy (*with* Souganidis, Panagiotis E.) A new approach to front propagation problems: theory and applications. (English summary) **99c:35106**
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Blanchard, François (*with* Kůrka, Petr; Maass, Alejandro) Topological and measure-theoretic properties of one-dimensional cellular automata. (English summary) **99c:58086**
Christiansen, Peter Leth (*with* Zolotaryuk, A. V.; Savin, A. V.) Solitons in an isolated helix chain. (English summary) **99a:92020**
Dehghanpour, Pouria (*with* Schonmann, Roberto H.) Metropolis dynamics relaxation via nucleation and growth. (English summary) **99b:82060**
Faria da Veiga, Paulo A. *see* **Schor, Ricardo; et al., 99m:81063**
Feng, Shui (*with* Iscoe, Ian; Seppäläinen, Timo) A microscopic mechanism for the porous medium equation. (English summary) **99a:60114**
Frachebourg, L. (*with* Krapivsky, P. L.) Fixation in a cyclic Lotka-Volterra model. (English summary) **99b:92041**
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Iscoe, Ian *see* **Feng, Shui; et al., 99a:60114**
Knill, Oliver (*with* Reed, E.) Complexity growth in almost periodic fluids in the case of lattice gas cellular automata and Vlasov systems. (English summary) **99a:82079**
Krapivsky, P. L. *see* **Frachebourg, L., 99b:92041**
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Maass, Alejandro (*with* Martínez, Servet A.) On Cesàro limit distribution of a class of permutative cellular automata. (English summary) **99a:58097**
— *see also* **Blanchard, François; et al., 99c:58086**
Majewski, Adam W. (*with* Olkiewicz, Robert; Zegarlinski, Boguslaw) Dissipative dynamics for quantum spin systems on a lattice. (English summary) **99k:82053**

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Matsui, Taku Positive energy representations for quantum spin models in 1 + 1 dimensions. (English summary) **99m:82032**
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Pravdová, A. *see* **Bičák, Jiří, 99i:83023**
Rajewsky, N. (*with* Santen, L.; Schadschneider, A.; Schreckenberg, Michael) The asymmetric exclusion process: comparison of update procedures. (English summary) **99e:82092**
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Schor, Ricardo (*with* Barata, João C. A.; Faria da Veiga, Paulo A.; Pereira, Emmanuel) Spectral properties of weakly coupled Landau-Ginzburg stochastic models. (English summary) **99m:81063**
Schreckenberg, Michael *see* **Rajewsky, N.; et al., 99e:82092**
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Souganidis, Panagiotis E. *see* **Barles, Guy, 99c:35106**
Takahashi, Daisuke (*with* Tokihiro, Tetsuji; Grammaticos, B.; Ohta, Yasuhiro; Ramani, A.) Constructing solutions to the ultradiscrete Painlevé equations. (English summary) **99a:39049**
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— Finite-volume Glauber dynamics in a small magnetic field. (English summary) **99d:82042**
Zegarlinski, Boguslaw *see* **Majewski, Adam W.; et al., 99k:82053**
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82C21 Dynamic continuum models (systems of particles, etc.)

Boldrighini, C. (*with* Sukhov, Yu. M.) One-dimensional hard-rod caricature of hydrodynamics: "Navier-Stokes correction" for local equilibrium initial states. (English summary) **99a:82061**
Gueron, Shay The steady-state distributions of coagulation-fragmentation processes. (English summary) **99g:82055**
Heintz, A. On the initial boundary value problems for the Enskog equation in irregular domains. (English summary) **99a:82062**
Jeon, Intae Existence of gelling solutions for coagulation-fragmentation equations. (English summary) **99g:82056**
Kuratsuji, Hiroshi (*with* Yabu, Hiroyuki) Force on a vortex in ferromagnet model and the properties of vortex configurations. (English summary) **99d:82046**
Sasamoto, Tomohiro (*with* Wadati, Miki) Determinant form solution for the derivative nonlinear Schrödinger type model. (English summary) **99c:82047**
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Thomova, Z. (*with* Winternitz, Pavel; Zakrzewski, Wojciech J.) Solutions of $(2 + 1)$-dimensional spin systems. (English summary) **99f:82048**
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Carlen, Eric Anders (*with* Carvalho, Maria Conceiçaõ Vieira; Orlandi, Enza) Free energy inequalities and the rate of relaxation to instantons for interface profiles in Glauber dynamics. (English summary) **99j:82057**
Carvalho, Maria Conceiçaõ Vieira *see* **Carlen, Eric Anders; et al., 99j:82057**
Fritz, József (*with* Liverani, Carlangelo; Olla, Stefano) Reversibility in infinite Hamiltonian systems with conservative noise. (English summary) **99c:60215**
Lindblad, Göran Brownian motion of quantum harmonic oscillators: existence of a subdynamics. (English summary) **99k:82051**
Liverani, Carlangelo *see* **Fritz, József; et al., 99c:60215**
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Orlandi, Enza *see* **Carlen, Eric Anders; et al., 99j:82057**
Rein, Gerhard Growth estimates for the solutions of the Vlasov-Poisson system in the plasma physics case. (English summary) **99c:82067**
Röckner, Michael Stochastic analysis on configuration spaces: basic ideas and recent results. **99k:60124**
Streater, R. F. A model of dense fluids. (English summary) **99k:82031**

82C22 Interacting particle systems [see also 60K35]

Alimohammadi, M. (*with* Karimipour, V.; Khorrami, Mohammad) Exact solution of a one-parameter family of asymmetric exclusion processes. (English summary) **99c:82048**
Carmona, René A. (*with* Xu, Lin) Diffusive hydrodynamic limits for systems of interacting diffusions with finite range random interaction. (English summary) **99c:82049**
Derrida, B. (*with* Lebowitz, Joel L.; Speer, Eugene R.) Shock profiles for the asymmetric simple exclusion process in one dimension. (English summary) **99f:82049**
— An exactly soluble non-equilibrium system: the asymmetric simple exclusion process. (English summary) **99g:82057**
Ermakov, Alexei (*with* Tóth, Bálint; Werner, Wendelin) On some annihilating and coalescing systems. (English summary) **99g:82058**
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Howard, Martin J. (*with* Godrèche, Claude) Persistence in the voter model: continuum reaction-diffusion approach. (English summary) **99a:82063**
Karimipour, V. Multispecies asymmetric simple exclusion process and its relation to traffic flow. (English summary)
— *see also* **Alimohammadi, M.; et al., 99c:82048**
Khorrami, Mohammad *see* **Alimohammadi, M.; et al., 99c:82048**
Lebowitz, Joel L. *see* **Derrida, B.; et al., 99f:82049**
Narnhofer, Heide Adiabatical stability of density distributions under Vlasov dynamics. (English summary) **99m:82034**
Schütz, Gunter M. Exact solution of the master equation for the asymmetric exclusion process. (English summary) **99e:82062**
Somsikov, V. M. Transmission processes and collision matrix in hard disks system. (English and Russian summaries)
Speer, Eugene R. *see* **Derrida, B.; et al., 99f:82049**
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Alexander, Kenneth S. (*with* Cesi, F.; Chayes, L.; Maes, Christian; Martinelli, Fabio) Convergence to equilibrium of random Ising models in the Griffiths phase. (English summary) **99i:82037**
Asselah, Amine Nonreversible stationary measures for exchange processes. (English summary) **99k:60241**
— (*with* Giacomin, Giambattista) Metastability for the exclusion process with mean-field interaction. (English summary) **99k:60242**
Bahadoran, C. Hydrodynamical limit for spatially heterogeneous simple exclusion processes. (English summary) **99j:60151**
Bandt, Christoph (*with* Hadeler, K. P.; Kriese, F.) Particle systems acting on undirected graphs. (English summary) **99f:60165**
Ben Arous, Gerard (*with* Guionnet, A.) Symmetric Langevin spin glass dynamics. (English summary) **99g:82074**
Bertini, Lorenzo (*with* Giacomin, Giambattista) Stochastic Burgers and KPZ equations from particle systems. (English summary) **99e:60212**
Cesi, F. (*with* Maes, Christian; Martinelli, Fabio) Relaxation of random magnets: exact results for the Griffiths' regime. (English summary) **99m:60150**
— *see also* **Alexander, Kenneth S.; et al., 99i:82037**
Chae, Dongho (*with* Dubovskiĭ, Pavel B.) Existence and uniqueness for spatially inhomogeneous coagulation-condensation equation with unbounded kernels. (English summary) **99a:45018**
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Chen, Dayue The consensus times of the majority vote process on a torus. (English summary) **99b:60167**
Chen, Jinwen Large deviations and ergodicity for spin particle systems. (English summary) **99d:60108**
Chen, Mu Fa Reaction-diffusion processes. (English summary) **99k:60246**
Dolbeault, J. Free energy and solutions of the Vlasov-Poisson-Fokker-Planck system: external potential and confinement (large time behavior and steady states). (English summary) **99m:35248**
Dubovskiĭ, Pavel B. *see* **Chae, Dongho, 99a:45018**
Erdős, László (*with* Yau, Horng-Tzer) Linear Boltzmann equation as scaling limit of quantum Lorentz gas. (English summary) **99h:82061**
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Giacomin, Giambattista (*with* Lebowitz, Joel L.) Phase segregation dynamics in particle systems with long range interactions. II. Interface motion. (English summary) **99m:35249**
— *see also* **Bertini, Lorenzo, 99e:60212** *and* **Asselah, Amine, 99k:60242**
Gielis, G. (*with* Koukkous, A.; Landim, C.) Equilibrium fluctuations for zero range processes in random environment. (English summary) **99g:60187**
Guionnet, A. Averaged and quenched propagation of chaos for spin glass dynamics. (English summary) **99j:60038**
— *see also* **Ben Arous, Gerard, 99g:82074**
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Janvresse, Elise First order correction for the hydrodynamic limit of symmetric simple exclusion processes with speed change in dimension $d \geq 3$. (English summary) **99k:60248**
Jourdain, B. Propagation trajectorielle du chaos pour les lois de conservation scalaire. (French summary) [Propagation of chaos along the trajectory for scalar conservation laws] **99k:60201**
Keisling, John D. Convergence speed for simple symmetric exclusion: an explicit calculation. (English summary) **99b:60168**
Knill, Oliver A deterministic displacement theorem for Poisson processes. (English summary) **99a:58107**
Komoriya, Keishi Hydrodynamic limit for asymmetric mean zero exclusion processes with speed change. (English and French summaries) **99k:60250**
Koukkous, A. *see* **Gielis, G.; et al., 99g:60187**
Kriese, F. *see* **Bandt, Christoph; et al., 99f:60165**
Landim, C. (*with* Olla, Stefano; Volchan, S. B.) Driven tracer particle and Einstein relation in one-dimensional symmetric simple exclusion process. (English summary) **99h:60167**

— (*with* Olla, Stefano; Volchan, S. B.) Driven tracer particle in one-dimensional symmetric simple exclusion. (English summary) **99b:60169**
— *see also* **Gielis, G.; et al., 99g:60187**
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Nagahata, Yukio The gradient condition for one-dimensional symmetric exclusion processes. (English summary) **99j:82006**
Olla, Stefano *see* **Landim, C.; et al., 99b:60169** *and* **99h:60167**
Quastel, J. (*with* Yau, Horng-Tzer) Lattice gases, large deviations, and the incompressible Navier-Stokes equations. (English summary) **99j:60157**
Rezakhanlou, Fraydoun Large deviations from a kinetic limit. (English summary) **99i:60175**
Schonmann, Roberto H. (*with* Shlosman, S. B.) Wulff droplets and the metastable relaxation of kinetic Ising models. (English summary) **99d:60113**
— Metastability and the Ising model. (English summary) **99j:60159**
— The triangle condition for contact processes on homogeneous trees. (English summary) **99e:60219**
Seppäläinen, Timo Exact limiting shape for a simplified model of first-passage percolation on the plane. (English summary) **99e:60220**
— Hydrodynamic scaling, convex duality and asymptotic shapes of growth models. (English summary) **99e:60221**
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Sidoravicius, V. (*with* Surgailis, Donatas; Vares, Maria Eulália) An exclusion process with two types of particles and the hydrodynamic limit. (English summary) **99e:60222**
Simonis, A. Filling the hypercube in the supercritical contact process in equilibrium. (English summary) **99d:60114**
Siri, Paola Asymptotic behaviour of a tagged particle in an inhomogeneous zero-range process. (English summary) **99k:60254**
Speer, Eugene R. Finite-dimensional representations of a shock algebra. (English summary) **99i:60177**
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Varadhan, S. R. S. Nongradient models in hydrodynamic scaling. **99j:60162**
— (*with* Yau, Horng-Tzer) Diffusive limit of lattice gas with mixing conditions. (English summary) **99k:60256**
Vares, Maria Eulália Large deviations and metastability. **99c:60060**
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82C23 Exactly solvable dynamic models [see also 58F07]

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Albeverio, Sergio (*with* Fei, Shao-Ming) Symmetry, integrable chain models and stochastic processes. (English summary) **99h:82021**
Aliev, M. A. *see* **Kuchanov, S. I., 99c:82046**
Derrida, B. An exactly soluble non-equilibrium system: the asymmetric simple exclusion process. (English summary) **99g:82057**
Fei, Shao-Ming *see* **Albeverio, Sergio, 99h:82021**
Korepin, Vladimir E. (*with* Slavnov, Nikita) Normal ordering in the theory of correlation functions of exactly solvable models. (English summary) **99j:82024**
Kuchanov, S. I. (*with* Aliev, M. A.) Correlation functions in a one-dimensional kinetic Ising model. (English summary) **99c:82046**
Schütz, Gunter M. Stochastic reaction-diffusion processes, operator algebras and integrable quantum spin chains. (English summary) (*see* **99f:82002**)
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82C24 Interface problems

Barabási, Albert-László (*with* Stanley, H. Eugene) ★ Fractal concepts in surface growth. (English summary) **99b:82072**
Batchelor, Murray T. (*with* Henry, B. I.; Watt, S. D.) Continuum model for radial interface growth. (English summary) **99g:82059**
Buttà, Paolo (*with* De Masi, Anna) Fine structure of the interface motion. (English summary) **99m:82035**
Carlen, Eric Anders (*with* Carvalho, Maria Conceiçaõ Vieira; Orlandi, Enza) Free energy inequalities and the rate of relaxation to instantons for interface profiles in Glauber dynamics. (English summary) **99j:82057**
Carvalho, Maria Conceiçaõ Vieira *see* **Carlen, Eric Anders; et al., 99j:82057**
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Fogedby, Hans C. Soliton approach to the noisy Burgers equation: steepest descent method. (English summary) **99b:82073**
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Orlandi, Enza *see* **Carlen, Eric Anders; et al., 99j:82057**
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Benzoni-Gavage, S. Nonuniqueness of phase transitions near the Maxwell line. (English summary) **99f:35210**
Bertini, Lorenzo (*with* Giacomin, Giambattista) Stochastic Burgers and KPZ equations from particle systems. (English summary) **99e:60212**
De Masi, Anna (*with* Olivieri, E.; Presutti, E.) Spectral properties of integral operators in problems of interface dynamics and metastability. (English summary) **99j:60153**
Giacomin, Giambattista (*with* Lebowitz, Joel L.) Phase segregation dynamics in particle systems with long range interactions. II. Interface motion. (English summary) **99m:35249**
— *see also* **Bertini, Lorenzo, 99e:60212**
Ishii, Katsuyuki Regularity and convergence of crystalline motion in the plane. **99f:58044**
Lebowitz, Joel L. *see* **Giacomin, Giambattista, 99m:35249**
Olivieri, E. *see* **De Masi, Anna; et al., 99j:60153**
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Wiese, Kay Jörg On the perturbation expansion of the KPZ equation. (English summary) **99h:82053**

82C26 Dynamic and nonequilibrium phase transitions (general)

Gaveau, Bernard (*with* Schulman, L. S.) Theory of nonequilibrium first-order phase transitions for stochastic dynamics. (English summary) **99e:82063**
Gleiser, Marcelo Two lectures on phase mixing: nucleation and symmetry restoration. (English summary) (*see* **99k:82001**)
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82C41 Dynamics of random walks, random surfaces, lattice animals, etc. [see also 60J15]

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82C70 Transport processes

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82C80 Numerical methods (Monte Carlo, series resummation, etc.)

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82Dxx Applications to specific types of physical systems

82D05 Gases

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82D15 Liquids

Chen, Feng *see* **Xu, Tiefeng; et al., 99c:82068**
Cummings, Peter T. *see* **Sarman, Sten S.; et al., 99h:82073**
Evans, Denis J. *see* **Sarman, Sten S.; et al., 99h:82073**
Isakov, Sergei B. Quantum liquids of particles with generalized statistics. (English summary) **99b:82084**
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Klimontovich, Yu. L. Gas-liquid phase transition. The van der Waals model. (Russian. Russian summary)
Kupiainen, Antti *see* **Bernard, Denis; et al., 99e:76065** *and* **Gawędzki, Krzysztof, 99f:76069**
Lions, Pierre-Louis ★ On Euler equations and statistical physics. **99m:35189**
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82D20 Solids

Benfatto, G. (*with* Gentile, Guido; Mastropietro, Vieri) Peierls instability for the Holstein model with rational density. (English summary) **99h:82074**
Bok, J. *see* **Mančal, T.; et al., 99h:82076**
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Ghosh, Subhradip (*with* Das, Nityananda; Mookerjee, Abhijit) A geometrical approach to Feenberg multiple-scattering series. (English summary) **99e:82094**
Haydock, Roger Calculating the mechanical properties of materials from interatomic forces. (English summary) (*see* **99c:73001**)
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82D25 Crystals {For crystallographic group theory, see 20H15.}

Baake, Michael Algebraic solution of the coincidence problem for crystals and quasicrystals. (English summary) (*see* **99f:82002**)
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82D30 Random media, disordered materials (including liquid crystals and spin glasses)

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Coluzzi, Barbara (*with* Parisi, Giorgio) On the approach to the equilibrium and the equilibrium properties of a glass-forming model. (English summary) **99b:82087**
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Varga, Peter[2] Minimax games, spin glasses, and the polynomial-time hierarchy of complexity classes. (English summary) **99a:82098**
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Barclay, G. J. (*with* Stewart, I. W.) The behaviour of perturbations to travelling waves arising in nematic liquid crystals. (English summary) **99i:76007**

Biscari, Paolo (*with* Guidone Peroli, Giovanna) A hierarchy of defects in biaxial nematics. (English summary) **99j:76003**
Bolthausen, Erwin (*with* Sznitman, Alain-Sol) On Ruelle's probability cascades and an abstract cavity method. (English summary) **99k:60244**
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Calderer, M. Carme Dissipation, surface energy and defects. (English summary) **99i:76008**
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Stewart, I. W. Stability of traveling waves in smectic-C liquid crystals. (English summary) **99a:76009**
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Zaika, Yu. V. Mathematical justification of a diffusion model with reversible trapping and dynamic boundary conditions. (Russian. English and Russian summaries) **99e:35234**

82D40 Magnetic materials

Carbou, Gilles Modèle quasi-stationnaire en micromagnétisme. (English and French summaries) [Quasistationary model in micromagnetism] **99g:82081**
Li, Bo Zang (*with* Pu, Fu Ke) Spin parity effect resulting from time-inversion symmetry. (English summary)
Papanicolaou, N. (*with* Spathis, P. N.) Semitopological solitons in planar ferromagnets. (English summary) **99k:82076**
Piette, B. M. A. G. (*with* Zakrzewski, Wojciech J.) Localized solutions in a two-dimensional Landau-Lifshitz model. (English summary) **99d:82077**
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Carbou, Gilles (*with* Fabrie, Pierre) Comportement asymptotique des solutions faibles des équations de Landau-Lifschitz. (English and French summaries) [Asymptotic behavior of weak solutions for Landau-Lifschitz equations] **99f:35200**
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Grillo, S. (*with* Montani, H.) q-deformed anisotropic superexchange interaction, frustration and $GL_{pq}(2)$. (English summary) **99i:81100**
Guo, Bo Ling (*with* Hong, Min-Chun; Su, Fengqiu) The global attractors for the Landau-Lifshitz equation of the ferromagnetic spin chain on compact manifolds. **99b:58217**
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Milgrom, Mordehai Suspension and levitation in nonlinear theories. (English summary) **99c:82076**
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Pismen, Len (*with* Pomeau, Yves; Rica, Sergio) Core structure and oscillations of spinor vortices. (English summary) **99b:82088**
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Koval', Gennadii V. On the exact solution of a many-fermion problem in the form of Maslov pairs. (English summary) **99e:81273**
Kuratsuji, Hiroshi (*with* Yabu, Hiroyuki) Force on a vortex in ferromagnet model and the properties of vortex configurations. (English summary) **99d:82046**
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Bentosela, F. (*with* Exner, Pavel; Zagrebnov, V. A.) Electron trapping by a current vortex. (English summary) **99c:82072**
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Bernoff, Andrew J. (*with* Sternberg, Peter) Onset of superconductivity in decreasing fields for general domains. (English summary) **99a:82099**
Binz, B. (*with* Zotos, X.; Baeriswyl, D.) Solution of the infinite-range t-J model. (English summary) **99b:82090**
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Chang, Zhe Green's function theory of the t-J model. (English summary) **99j:82070**
Chapman, S. J. (*with* Richardson, Giles William) Motion and homogenization of vortices in anisotropic type II superconductors. (English summary) **99c:82073**
— (*with* Heron, D. R.) The motion of superconducting vortices in thin films of varying thickness. (English summary) **99k:82077**
Demler, Eugene (*with* Zhang, Shou-Cheng) Non-abelian holonomy of BCS and SDW quasiparticles. (English summary) **99i:82039**
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Du, Qiang (*with* Gunzburger, Max D.; Lee, Hyesuk Kwon) Analysis and computation of a mean-field model for superconductivity. (English summary) **99m:82047**
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Feldman, Joel S. (*with* Knörrer, Horst; Sinclair, Robert; Trubowitz, Eugene) Superconductivity in a repulsive model. **99a:82100**
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82D75 Nuclear reactor theory

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82D99 None of the above, but in this section

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83–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

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85–XX Astronomy and astrophysics {For celestial mechanics, see 70F15.}

85–01 Instructional exposition (textbooks, tutorial papers, etc.)

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(Cini, Marcello) *see* **Russo, Lucio, 99g:01005**
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85–04 Explicit machine computation and programs (not the theory of computation or programming)

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Xue, Guo Liang An $O(n)$ time hierarchical tree algorithm for computing force field in n-body simulations. (English summary) **99a:70002**

85–06 Proceedings, conferences, collections, etc.

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(Sánchez Martínez, Francisco) *see* **Universe at large, 99e:85001**

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85–08 Computational methods

Desbat, L. (*with* Mennessier, C.) On the invertibility of Doppler imaging: an approach based on generalized tomography. (English summary) **99m:85001**
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Balsara, Dinshaw S. (*with* Spicer, Daniel S.) Maintaining pressure positivity in magnetohydrodynamic simulations. (English summary) **99j:76079**
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Dai, Wenlong (*with* Woodward, Paul R.) Numerical simulations for radiation hydrodynamics. I. Diffusion limit. (English summary) **99a:76094**
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Kanschat, G. A robust finite element discretization for radiative transfer problems with scattering. (English summary) **99k:65116**
Karp, Alan H. Recent advances in the spherical harmonics method. (English summary) **99i:85003**
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Teng, Shang-Hua Provably good partitioning and load balancing algorithms for parallel adaptive N-body simulation. (English summary) **99a:70006**
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85A05 Galactic and stellar dynamics

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Dukes, Peter *see* **Illner, R.; et al., 99i:85001**
Illner, R. (*with* Victory, H. D.; Dukes, Peter; Bobylëv, A. V.) On Vlasov-Manev equations. II. Local existence and uniqueness. (English summary) **99i:85001**
Jalali, M. A. (*with* Sobouti, Y.) Some analytical results in dynamics of spheroidal galaxies. (English summary) **99g:85001**
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85A20 Stellar atmospheres

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Proctor, M. R. E. *see* **Meunier, N.; et al., 99k:85006**
Sokolov, D. D. *see* **Meunier, N.; et al., 99k:85006**
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85A25 Radiative transfer

Garcia, R. D. M. (*with* Siewert, C. E.) The F_N method in atmospheric radiative transfer. (English summary) **99i:85002**
Karp, Alan H. Recent advances in the spherical harmonics method. (English summary) **99i:85003**
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Wang, Alan P. (*with* Wang, Cecilia Y.) Identification of a dissipative transport system. (English summary) **99c:85001**
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Barletti, Luigi A Fourier-like method for the expectation problem in stochastic transport theory. (English summary) **99d:82058**
Guo, Mao Zheng (*with* Wang, Xiao Ping[1]) Transport equations for a general class of evolution equations. (English summary) **99f:35113**
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— The stationary translationally invariant Peierls equation in radiation transfer theory in the space of slowly growing distributions, and some properties of the Peierls potential. I. (Russian. Russian summary) **99c:31013a**
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85A30 Hydrodynamic and hydromagnetic problems [see also 76Y05]

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Baburova, O. V. (*with* Frolov, B. N.) Perfect hypermomentum fluid: variational theory and equations of motion. (English summary) **99k:85002**
Brenner, Michael P. (*with* Witelski, Thomas P.) On spherically symmetric gravitational collapse. (English summary) **99k:85003**
Frolov, B. N. *see* **Baburova, O. V., 99k:85002**
Fu, Chun-Chieh (*with* Lin, Song-Sun) On the critical mass of the collapse of a gaseous star in spherically symmetric and isentropic motion. (English summary) **99k:85004**
Hujeirat, A. (*with* Rannacher, Rolf) A method for computing compressible, highly stratified flows in astrophysics based on operator splitting. (English summary) **99b:85001**
Lebovitz, Norman R. The mathematical development of the classical ellipsoids. (English summary) **99k:85005**
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Meunier, N. (*with* Proctor, M. R. E.; Sokolov, D. D.; Soward, Andrew M.; Tobias, S. M.) Asymptotic properties of a nonlinear $\alpha\omega$-dynamo wave: period, amplitude and latitude dependence. (English summary) **99k:85006**
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Rannacher, Rolf *see* **Hujeirat, A., 99b:85001**
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Dai, Wenlong (*with* Woodward, Paul R.) Numerical simulations for radiation hydrodynamics. I. Diffusion limit. (English summary) **99a:76094**
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86–01 Instructional exposition (textbooks, tutorial papers, etc.)

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86–02 Research exposition (monographs, survey articles)

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86–04 Explicit machine computation and programs (not the theory of computation or programming)

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Barmin, A. A. (*with* Mel′nik, O. È.) Modeling of nonstationary processes in the volcanic eruption of highly viscous gas-saturated magma. (Russian. Russian summary)
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Getino, Juan *see* **González, Ana-Belén; et al., 99i:86002**
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Lane-Serff, Gregory F. (*with* Baines, Peter G.) Eddy formation by dense flows on slopes in a rotating fluid. (English summary) **99b:86001**

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Mathematics of Models for Climatology and Environment ★ The mathematics of models for climatology and environment. **99d:86001**
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Ocean modeling and parameterization ★ Ocean modeling and parameterization. **99f:86001**
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Gottlieb, Johannes *see* **Romanov, Vladimir Gavrilovich, 99g:78032**
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Lang, Reinhard Über die Bestimmung von Leitfähigkeiten durch Oberflächenmessungen. (German summary) [On the determination of conductivity through surface measurements] **99f:78022**
Li, Da Qian (*with* Zheng, Songmu; Tan, Yongji; Shen, Weixi) ★ Boundary value problems with equivalued surface and resistivity well-logging. (English summary) **99h:35230**
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Zhu, Zhuo Wen Unified representation of gravitation field in consideration of effect of ellipsoid flattening. **99g:86004**

86A22 Inverse problems [see also 35R30]

Barreto, Jorge Muniz *see* **Lopes, Elizeu Pereira; et al., 99e:86008**

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Vasco, D. W. Regularization and trade-off associated with nonlinear geophysical inverse problems: penalty homotopies. (English summary) **99e:86009**

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Druskin, Vladimir On the uniqueness of inverse problems from incomplete boundary data. (English summary) **99i:35175**

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Isakov, Victor ★ Inverse problems for partial differential equations. (English summary) **99b:35211**

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86A25 Geo-electricity and geomagnetism [see also 78A25]

Cardin, P. *see* **Jault, D.; et al., (99k:76007)**

Glatzmaier, Gary A. (*with* Roberts, Paul H.) Dynamo theory then and now. (English summary) **99i:86017**

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Basu, Bamandas Equatorial plasma instability in time-dependent equilibrium. (English summary) **99d:76103**

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Wallace, S. G. (*with* Jones, Christopher Andrew) Temporal solutions of a duct geometry dynamo. (English summary) (*see* **99g:00044**)

86A30 Geodesy, mapping problems

Jabon, David *see* **Nord, Gail; et al., 99e:86010**

Keeler, Stephen P. (*with* Nievergelt, Yves) Computing geodetic coordinates. (English summary) **99g:86003**

Nievergelt, Yves *see* **Keeler, Stephen P., 99g:86003**

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Otero, Jesús A uniqueness theorem for a Robin boundary value problem of physical geodesy. (English summary) **99b:35043**
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86A32 Geostatistics

Adam, Mircea An algorithm for computing the optimal estimator of a regionalized variable in the presence of a drift. (English summary)
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Genton, Marc G. Variogram fitting by generalized least squares using an explicit formula for the covariance structure. (English summary) **99c:86007**
— Spatial breakdown point of variogram estimators. (English summary) **99e:86012**
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— (*with* Sasvári, Zoltán) The characterization problem for isotropic covariance functions. (English summary) **99j:86016**
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Sönmez, İbrahim *see* **Şen, Zekai; et al.**
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Laws, Edward ★ Mathematical methods for oceanographers. (English summary) **99m:86001**
Ogorodnikov, V. A. *see* **Gubina, N. I., 99i:86013**

86A40 Glaciology

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Flavin, James N. (*with* Rionero, Salvatore) On the temperature distribution in cold ice. (English and Italian summaries) **99c:86009**
Fowler, Andrew C. Glaciers and ice sheets. (*see* **99d:86001**)
Gödert, Günter (*with* Hutter, Kolumban) Induced anisotropy in large ice shields: theory and its homogenization. (English summary) **99i:86018**
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Hetzer, Georg S-shapedness for energy balance climate models of Sellers-type. **99j:86017**
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Morland, L. W. (*with* Staroszczyk, R.) Viscous response of polar ice with evolving fabric. (English summary) **99d:73077**
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86A60 Geological problems

Barmin, A. A. (*with* Mel′nik, O. È.) Modeling of nonstationary processes in the volcanic eruption of highly viscous gas-saturated magma. (Russian. Russian summary)
Guan, Zhicheng Some mathematical results from the model of freezing soil. (English summary) (*see* **99b:00013**)
Hutter, Kolumban *see* **dell'Isola, Francesco, 99c:86010**
Ismail-zade, A. T. (*with* Korotkiĭ, A. I.; Naĭmark, B. M.; Suetov, A. P.; Tsepelev, I. A.) Realization of a three-dimensional hydrodynamic model of the evolution of sedimentary basins. (Russian. Russian summary) **99f:86008**
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86A99 Miscellaneous topics

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Barkin, Yu. V. On integrable cases of the Liouville problem. (Russian. Russian summary) **99e:70018**
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de Gennes, Pierre-Gilles *see* **Boutreux, Thomas; et al., 99h:73035**
Gerke, Horst H. (*with* Hornung, Ulrich; Kelanemer, Youcef; Slodička, Marián; Schumacher, Stephan) ★ Optimal control of soil venting: mathematical modeling and applications. (English summary) **99m:49061**
Getino, Juan *see* **González, Ana-Belén; et al., 99i:86002**
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Cryptography and coding ★ Cryptography and coding. **99g:94019**
Lecture Notes in Computer Science ★ Cryptography and coding. **99g:94019**
Mathematical programming for industrial engineers ★ Mathematical programming for industrial engineers. **99g:90006**

90–03 Historical (must also be assigned at least one classification number from Section 01)

Murphy, Frederic H. (*with* Panchanadam, Venkat) Understanding linear programming modeling through an examination of the early papers on model formulation. (English summary) **99d:90002**
Panchanadam, Venkat *see* **Murphy, Frederic H.**, 99d:90002

Items with secondary classifications in 90–03

(Allais, Maurice) *see* **Munier, Bertrand R.**, 99c:01022
(Alt, Franz L.) *see* **Menger, Karl**, 99j:01028
(Dawson, J. W., Jr.) *see* **Menger, Karl**, 99j:01028
(Debreu, Gerard) *see* **Menger, Karl**, 99j:01028
(Dierker, E.) *see* **Menger, Karl**, 99j:01028
(Engelking, R.) *see* **Menger, Karl**, 99j:01028
Föllmer, Hans Ein Nobel-Preis für Mathematik? [A Nobel prize for mathematics?] **99k:01090**
Guerraggio, Angelo Mathematical economics. (Italian) (*see* **99i:01001**)
(Hildenbrand, W.) *see* **Menger, Karl**, 99j:01028
Hoffman, Frederick Introduction and history. (English summary) (*see* **99g:68162**)
Knobloch, Hans Wilhelm Variationsrechnung, Spieltheorie und "economic dynamics". [Calculus of variations, game theory and "economic dynamics"] (*see* **99f:01003**)
Lal, Sunder The story of linear programming. (English summary)
(Lewis, Gillian) *see* **Malinvaud, Edmond**, 99c:01023
Malinvaud, Edmond Maurice Allais, unrecognized pioneer of overlapping generations models. **99c:01023**
Menger, Karl ★ Ergebnisse eines mathematischen Kolloquiums. (German) [Results of a mathematical colloquium] **99j:01028**
Munier, Bertrand R. Fifty years of Maurice Allais' economic writings: seeds for renewal in contemporary economic thought. **99c:01022**
(Sigmund, Karl) *see* **Menger, Karl**, 99j:01028

Items listed otherwise than by author

Biography:
Menger, Karl *see* **Menger, Karl**, 99j:01028

90–04 Explicit machine computation and programs (not the theory of computation or programming)

Schittkowski, K. PDEFIT: a FORTRAN code for data fitting in partial differential equations. (English summary)
Van Hentenryck, Pascal A gentle introduction to NUMERICA. (English summary)
Zhang, Yin[1] Solving large-scale linear programs by interior-point methods under the MATLAB environment. (English summary)

Items with secondary classifications in 90–04

Abramson, David (*with* Randall, Marcus) A simulated annealing code for general integer linear programs. (English summary) (*see* **99k:90002**)
Applegate, David (*with* Bixby, Robert; Chvátal, Vašek; Cook, William J.) On the solution of traveling salesman problems. (English summary) **99g:90093**
Barnhart, Cynthia (*with* Johnson, Ellis L.; Nemhauser, George L.; Savelsbergh, Martin W. P.; Vance, Pamela H.) Branch-and-price: column generation for solving huge integer programs. (English summary) **99g:90074**
Bixby, Robert *see* **Applegate, David; et al.**, 99g:90093
Chvátal, Vašek *see* **Applegate, David; et al.**, 99g:90093
Cook, William J. *see* **Applegate, David; et al.**, 99g:90093
Gaviano, M. (*with* Lera, D.) Test functions with variable attraction regions for global optimization problems. (English summary) **99f:90122**
Gondzio, Jacek Warm start of the primal-dual method applied in the cutting-plane scheme. (English summary) **99f:90055**
Gu, Zonghao (*with* Nemhauser, George L.; Savelsbergh, Martin W. P.) Lifted cover inequalities for 0 – 1 integer programs: computation. (English summary)
Johnson, Ellis L. *see* **Barnhart, Cynthia; et al.**, 99g:90074
Jünger, Michael (*with* Thienel, Stefan) Introduction to ABACUS—a branch-and-cut system. (English summary)
Kall, Peter (*with* Mayer, János) On testing SLP codes with SLP-IOR. (English summary) (*see* **99c:90004**)
Lera, D. *see* **Gaviano, M.**, 99f:90122
Mayer, János *see* **Kall, Peter**, (99c:90004)
Michel, Laurent (*with* Van Hentenryck, Pascal) LOCALIZER: a modeling language for local search. (English summary)
Nemhauser, George L. *see* **Barnhart, Cynthia; et al.**, 99g:90074 *and* **Gu, Zonghao; et al.**
Nenakhov, E. I. (*with* Primak, M. E.) A modified fixed point iteration method for solving exchange models. (English summary) **99a:90055**
Primak, M. E. *see* **Nenakhov, E. I.**, 99a:90055
Rančić, Svetozar *see* **Stanimirović, Predrag S.**
Randall, Marcus *see* **Abramson, David**, (99k:90002)
Savelsbergh, Martin W. P. *see* **Barnhart, Cynthia; et al.**, 99g:90074 *and* **Gu, Zonghao; et al.**
Stanimirović, Predrag S. (*with* Rančić, Svetozar) First order gradient optimization in LISP. (English summary)
Thienel, Stefan *see* **Jünger, Michael**
Vance, Pamela H. *see* **Barnhart, Cynthia; et al.**, 99g:90074
Van Hentenryck, Pascal *see* **Michel, Laurent**

90–06 Proceedings, conferences, collections, etc.

(Abraham-Frois, Gilbert) *see* **Non-linear dynamics and endogenous cycles**, 99d:90007
(Bardi, Martino) *see* **Stochastic and differential games**, 99m:90005
(Beasley, J. E.) *see* **Advances in combinatorial optimization**, 99k:90002
(Bolton, Gary) *see* **Experimental economics**, 99d:90004
(Bräsel, Heidemarie) *see* **Models and algorithms for planning and scheduling problems**, 99g:90009
(Chen, Guang Ya) *see* **Set-valued optimization**, 99g:90010
(Clímaco, João) *see* **Multicriteria analysis**, 99d:90006
(Crouzeix, Jean-Pierre) *see* **Generalized convexity, generalized monotonicity: recent results**, 99f:90006
(Dallery, Yves) *see* **Queueing networks with blocking**, 99a:90010 *and* **Performance evaluation**, 99e:90004
(Derigs, Ulrich) *see* **Proceedings: Operations Research**, 99a:90009 *and* 99d:90008
(Domschke, Wolfgang) *see* **Proceedings: Operations Research**, 99d:90008
(Fourneau, Jean-Michel) *see* **Performance evaluation**, 99e:90004
(Fukushima, Masao) *see* **Reformulation: nonsmooth, piecewise smooth, semismooth and smoothing methods**, 99k:90004
(Galperin, Efim A.) *see* **Global optimization, control, and games**, 99i:90003
(García-Jurado, Ignacio) *see* **Games and politics**, 99h:90007
(Gaul, Wolfgang) *see* **Proceedings: Operations Research**, 99a:90009
(Geweke, John) *see* **Decison making under risk and uncertainty**, 99a:90003
(Giannessi, Franco) *see* **New trends in mathematical programming**, 99c:90004
(Gutkowski, W.) *see* **Discrete structural optimization**, 99b:90007
(Hallefjord, Åsa) *see* **Modelling: in memory of Åsa Hallefjord**, 99e:90003
(Hildenbrand, W.) *see* **Aggregation**, 99k:90003
(van den Honert, Robin C.) *see* **Trends in multicriteria decision making**, 99g:90012
(Horst, Reiner) *see* **Workshop: Global Optimization**, 99k:90005
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(Kino, Issei) *see* **Performance evaluation of information communication networks**, 99a:90008
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(Kleinschmidt, Peter) *see* **Proceedings: Operations Research**, 99d:90008
(Kochetov, Yu. A.) *see* **Conference: Operations Research**
(Komlósi, Sándor) *see* **New trends in mathematical programming**, 99c:90004
(Kouvatsos, Demetres D.) *see* **Queueing networks with blocking**, 99a:90010
(Kreps, David M.) *see* **Advances in economics and econometrics: theory and applications**, 99d:90003
(Lemaire, Bernard) *see* **Performance evaluation**, 99e:90004
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(Lorenz, Hans-Walter) *see* **Proceedings: Operations Research**, 99d:90008
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(Martínez-Legaz, Juan-Enrique) *see* **Generalized convexity, generalized monotonicity: recent results**, 99f:90006
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(Meskens, Nadine) *see* **Advances in decision analysis**, 99m:90003
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(Mitra, Gautam) *see* **Applied mathematical programming and modeling**, 99b:90006
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(Petrosyan, L. A.) *see* **Yearbook: Game theory and applications**, 99k:90006
(Pirlot, Marc) *see* **Fuzzy sets and applications**, 99a:90004
(Punnen, Abraham P.) *see* **Traveling salesman problem**, 99m:90007
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(Roos, Cornelis) *see* **Proceedings: Workshop on High Performance Optimization Techniques**, 99i:90004
(Roubens, Marc) *see* **Advances in decision analysis**, 99m:90003
(Schoenauer, Marc) *see* **Evolutionary computation**, 99b:90008
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(Siskos, Yannis) *see* **Recent developments in multiple objective optimization**, 99a:90011
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(Stewart, Theodor J.) *see* **Trends in multicriteria decision making**, 99g:90012
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(Wang, Shou Yang) *see* **Management science in China**, 99m:90004
(Werner, Frank) *see* **Models and algorithms for planning and scheduling problems**, 99g:90009
(Wets, Roger J.-B.) *see* **Stochastic programming. State of the art**, 99m:90006
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(Wolkowicz, Henry) *see* **Semidefinite programming and interior-point approaches for combinatorial optimization problems**, 99a:90012
(Yu, Gang[2]) *see* **Industrial applications of combinatorial optimization**, 99d:90005
(Yuan, Ya Xiang) *see* **Advances in nonlinear programming**, 99b:90004
(Zhang, Shaohui) *see* **Management science in China**, 99m:90004
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(Zimmermann, Uwe) *see* **Proceedings: Operations Research**, 99a:90009
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(Zopounidis, C.) *see* **Recent developments in multiple objective optimization**, 99a:90011

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Aarhus ★ The interplay between insurance, finance and control. **99a:90006**
Advances in combinatorial optimization ★ Advances in combinatorial optimization. **99k:90002**
Advances in decision analysis ★ Advances in decision analysis. **99m:90003**
Advances in economics and econometrics: theory and applications ★ Advances in economics and econometrics: theory and applications. Vol. I, II, III. **99d:90003**
Advances in nonlinear programming ★ Advances in nonlinear programming. **99b:90004**
Aggregation ★ Aggregation. **99k:90003**
Algorithms and economic dynamics ★ Algorithms and economic dynamics. **99b:90005**
Applied mathematical programming and modeling ★ Applied mathematical programming and modeling. III (APMOD95). **99b:90006**
Axiomatics of resource allocation ★ Axiomatics of resource allocation. II. **99h:90005**
Beijing ★ Advances in nonlinear programming. **99b:90004**
Braunschweig ★ Operations Research Proceedings 1996. **99a:90009**
Cape Town ★ Trends in multicriteria decision making. **99g:90012**
Coimbra ★ Multicriteria analysis. **99d:90006**
Conference:
  Combinatorial Optimisation ★ Advances in combinatorial optimization. **99k:90002**
  Foundation and Applications of Utility, Risk and Decision Theories ★ Decision making under risk and uncertainty. **99a:90003**
  Games and Politics ★ Games and politics. **99h:90007**
  Management Science and the Economic Development of China ★ Management science in China. **99m:90004**
  MCDM ★ Multicriteria analysis. **99d:90006**
  Methods and Applications of Multiple Criteria Decision Making ★ Advances in decision analysis. **99m:90003**
  Multiple Criteria Decision Making ★ Trends in multicriteria decision making. **99g:90012**
  Nonlinear Programming ★ Advances in nonlinear programming. **99b:90004**
  Operations Research ★ Международная Сибирская Конференция по Исследованию Операций. (Russian) [International Siberian Conference on Operations Research]
  Stochastic Programming ★ Stochastic programming. State of the art. 1998. **99m:90006**
Congress:
  Econometric Society ★ Advances in economics and econometrics: theory and applications. Vol. I, II, III. **99d:90003**
Connections between integer programming and constraint logic programming ★ Connections between integer programming and constraint logic programming. **99e:90002**
Decision theory and related fields ★ Kettei riron to sono kanren bunya. (Japanese) [Decision theory and related fields] **99h:90006**
Decison making under risk and uncertainty ★ Decision making under risk and uncertainty. **99a:90003**
Delft ★ Proceedings of the Stieltjes Workshop on High Performance Optimization Techniques (HPOPT '96). **99i:90004**
Discrete structural optimization ★ Discrete structural optimization. **99b:90007**
Durham, NC ★ Decision making under risk and uncertainty. **99a:90003**
Dynamic decision systems in uncertain environments ★ Fukakujitsuna kankyō moderu de no dōteki kōdō kettei shisutemu. [Dynamic decision systems in uncertain environments] **99i:90002**
Essays in decision making ★ Essays in decision making. **99f:90005**
Evolutionary computation ★ Evolutionary computation. **99b:90008**
Experimental economics ★ Experimental economics. **99d:90004**
Festschrift:
  Zionts, Stanley ★ Essays in decision making. **99f:90005**
Fuzzy sets and applications ★ Fuzzy sets and applications. **99a:90004**
Games and politics ★ Games and politics. **99h:90007**
Generalized convexity, generalized monotonicity: recent results ★ Generalized convexity, generalized monotonicity: recent results. **99f:90006**
Geneva ★ Algorithms and economic dynamics. **99b:90005**
Global optimization, control, and games ★ Global optimization, control, and games. III. **99i:90003**
Industrial applications of combinatorial optimization ★ Industrial applications of combinatorial optimization. **99d:90005**
Interior point methods of mathematical programming ★ Interior point methods of mathematical programming. **99a:90005**
Interplay between insurance, finance and control ★ The interplay between insurance, finance and control. **99a:90006**
Jena ★ Operations Research Proceedings 1997. **99d:90008**
Kamakura ★ Performance evaluation of information communication networks. **99a:90008**
Kowloon ★ Management science in China. **99m:90004**
Lausanne ★ Reformulation: nonsmooth, piecewise smooth, semismooth and smoothing methods. **99k:90004**
Lecture Notes in Economics and Mathematical Systems ★ Non-linear dynamics and endogenous cycles. **99d:90007**
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Linear matrix inequalities and positive semidefinite programming ★ Senkei gyōretsu futōshiki to hanseiteichi keikakuhō. [Linear matrix inequalities and positive semidefinite programming] **99a:90007**
London ★ Advances in combinatorial optimization. **99k:90002**
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Memorial Volume:
  Vajda, Steven ★ New trends in mathematical programming. **99c:90004**
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Models and algorithms for planning and scheduling problems ★ Models and algorithms for planning and scheduling problems. **99g:90009**
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Multicriteria analysis ★ Multicriteria analysis. **99d:90006**
Nanterre ★ Non-linear dynamics and endogenous cycles. **99d:90007**
Neubiberg/Munich ★ Stochastic programming methods and technical applications. **99f:90007**
New trends in mathematical programming ★ New trends in mathematical programming. **99c:90004**
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Novosibirsk ★ Международная Сибирская Конференция по Исследованию Операций. (Russian) [International Siberian Conference on Operations Research]
Optimization theory in discrete and continuous mathematics ★ Risan sūri to renzoku sūri ni okeru saitekika riron. (Japanese) [Optimization theory in discrete and continuous mathematics] **99b:90009**
Performance evaluation ★ Performance evaluation. (French) **99e:90004**
Performance evaluation of information communication networks ★ Performance evaluation of information communication networks. **99a:90008**
Proceedings:
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  Workshop on High Performance Optimization Techniques ★ Proceedings of the Stieltjes Workshop on High Performance Optimization Techniques (HPOPT '96). **99i:90004**
Queueing networks with blocking ★ Queueing networks with blocking. **99a:90010**
Recent developments in multiple objective optimization ★ Recent developments in multiple objective optimization. **99a:90011**
Reformulation: nonsmooth, piecewise smooth, semismooth and smoothing methods ★ Reformulation: nonsmooth, piecewise smooth, semismooth and smoothing methods. **99k:90004**
Santiago de Compostela ★ Games and politics. **99h:90007**
Semidefinite programming and interior-point approaches for combinatorial optimization problems ★ Semidefinite programming and interior-point approaches for combinatorial optimization problems. **99a:90012**
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  Recent developments in multiple objective optimization ★ Recent developments in multiple objective optimization. **99a:90011**
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  Transportation ★ Transportation. **99g:90011**
  Traveling salesman problem ★ The traveling salesman problem. **99m:90007**
Stochastic and differential games ★ Stochastic and differential games. **99m:90005**
Stochastic programming methods and technical applications ★ Stochastic programming methods and technical applications. **99f:90007**
Stochastic programming. State of the art ★ Stochastic programming. State of the art. 1998. **99m:90006**
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  Dynamic Decision Systems in Uncertain Environments ★ Fukakujitsuna kankyō moderu de no dōteki kōdō kettei shisutemu. [Dynamic decision systems in uncertain environments] **99i:90002**
  Generalized Convexity ★ Generalized convexity, generalized monotonicity: recent results. **99f:90006**
  Linear Matrix Inequalities and Positive Semidefinite Programming ★ Senkei gyōretsu futōshiki to hanseiteichi keikakuhō. [Linear matrix inequalities and positive

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Optimization Theory in Discrete and Continuous Mathematics ★ Risan sūri to renzoku sūri ni okeru saitekika riron. (Japanese) [Optimization theory in discrete and continuous mathematics] **99b:90009**
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Toronto, ON ★ Semidefinite programming and interior-point approaches for combinatorial optimization problems. **99a:90012**
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Interplay between Insurance, Finance and Control ★ The interplay between insurance, finance and control. **99a:90006**
Models and Algorithms for Planning and Scheduling Problems ★ Models and algorithms for planning and scheduling problems. **99g:90009**
Non-linear Dynamics and Endogenous Cycles ★ Non-linear dynamics and endogenous cycles. **99d:90007**
Performance Evaluation ★ Performance evaluation. (French) **99e:90004**
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Stochastic Optimization: Numerical Methods and Technical Applications ★ Stochastic programming methods and technical applications. **99f:90007**
Yearbook:
Game theory and applications ★ International year-book of game theory and applications. Vol. 1. **99k:90006**

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Biais, Bruno (*with* Björk, Tomas; Cvitanić, Jakša; El Karoui, N.; Jouini, Elyès; Rochet, Jean Charles) ★ Financial mathematics. **99a:90033**
Björk, Tomas *see* **Biais, Bruno; et al., 99a:90033**
(Bol, Georg) *see* **Risk measurement, econometrics and neural networks, 99j:62148**
Cvitanić, Jakša *see* **Biais, Bruno; et al., 99a:90033**
(De Luca, Marino) *see* **Equilibrium problems with side constraints. Lagrangean theory and duality, 99a:49002**
(Diebold, Francis X.) *see* **Symposium: Forecasting and Empirical Methods in Macroeconomics and Finance, 99h:62001**
(Dontchev, Asen L.) *see* **Systems modelling and optimization, 99k:93007**
El Karoui, N. *see* **Biais, Bruno; et al., 99a:90033**
(Giannessi, Franco) *see* **Equilibrium problems with side constraints. Lagrangean theory and duality, 99a:49002**
(Ivanov, Radostin) *see* **Proceedings: Conference on Mathematical Methods in Operations Research/Workshop on Well-posedness and Stability of Optimization Problems, 99k:49002**
Jouini, Elyès *see* **Biais, Bruno; et al., 99a:90033**
(Kalai, Ehud) *see* **Special Issue: Imperfect recall, 99b:90162**
(Kall, Peter) *see* **Systems modelling and optimization, 99k:93007**
(Kenderov, P. S.) *see* **Proceedings: Conference on Mathematical Methods in Operations Research/Workshop on Well-posedness and Stability of Optimization Problems, 99k:49002**
(Khokholov, V. B.) *see* **Dynamics of control systems, and computational processes, 99m:00021**
(Lasiecka, Irena) *see* **Systems modelling and optimization, 99k:93007**
(Lawler, Eugene L.) *see* **Networks and matroids; Sequencing and scheduling, 99b:00026**
(Lenstra, Jan Karel) *see* **Networks and matroids; Sequencing and scheduling, 99b:00026**
(Mahrenholtz, O.) *see* **ICIAM/GAMM 95, 99f:00010b**
(Marti, Kurt) *see* **ICIAM/GAMM 95, 99f:00010b**
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90A40 Consumer behavior, demand theory

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90A70 Macro-economic policy-making, taxation

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90A80 Resource allocation

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90Bxx Operations research and management science

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(Wallace, Stein W.) *see* **Modelling: in memory of Åsa Hallefjord, 99e:90003**
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90B05 Inventory, storage, reservoirs

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Balkhi, Zaid T. On the global optimality of a general economic order quantity model for deteriorating items. (English summary)
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— (*with* Raju, Narayana Pillai) (s, S) inventory with lead time—the N-policy. (English summary) **99m:90058**
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Simonian, Alain D. (*with* Roberts, James W.; Théberge, F.; Mazumdar, Ravi R.) Asymptotic estimates for blocking probabilities in a large multi-rate loss network. (English summary) **99c:60211**
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Le Gall, Pierre Erratum: "The theory of networks of single server queues and the tandem queue model" [J. Appl. Math. Stochastic Anal. **10** (1997), no. 4, 363–381].
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— (*with* van Doorn, Erik A.; Resing, J. A. C.; Scheinhardt, W. R. W.) Analysis of a single-server queue interacting with a fluid reservoir. (English summary) **99j:60135**
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Tokarev, V. V. A limiting transformation of probabilistic controls into a guaranteed control for discrete-continuous problems. (Russian. Russian summary) **99c:93116**
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90B40 Search theory

Baston, Vic Note: Two rendezvous search problems on the line. (English summary)
Brimberg, Jack (*with* Chen, Reuven; Chen, Doron) Accelerating convergence in the Fermat-Weber location problem. (English summary) **99h:90059**
Chen, Doron *see* **Brimberg, Jack; et al., 99h:90059**
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Demeulemeester, Erik *see* **De Reyck, Bert; et al.**
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Dor, Avner (*with* Greenshtein, Eitan; Korach, Ephraim) Optimal and myopic search in a binary random vector. (English summary) **99f:90052**
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Hohzaki, Ryusuke (*with* Iida, Koji; Kiyama, Masaki) Randomized look strategy for a moving target when a search path is given. (English summary) **99k:90093**
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Chepoĭ, V. D. On distance-preserving and domination elimination orderings. (English summary) **99h:05032**
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Golovach, P. A. *see* **Fomin, F. V.; et al., 99b:90178** *and* **99h:90129**
Hohzaki, Ryusuke (*with* Iida, Koji) A search game with reward criterion. (English summary) **99j:90114**
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Istratov, A. Yu. *see* **Ageev, D. A.**
López-Ortiz, Alejandro (*with* Schuierer, Sven) The ultimate strategy to search on m rays? (English summary) (*see* **99k:68008**)
Petrov, Nikolaĭ Nikolaevich *see* **Fomin, F. V.; et al., 99b:90178** *and* **99h:90129**
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90B50 Management decision-making, including multiple objectives [see also 90A05, 90C31, 90D35]

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Papadopoulos, H. T. Analysis of production lines with Coxian service times and no intermediate buffers. (English summary)
Sudhölter, Peter Axiomatizations of game theoretical solutions for one-output cost sharing problems. (English summary) **99i:90023**
Waldmann, Karl-Heinz On granting credit in a random environment. (English summary) **99a:90232**
Wang, Huan Chen *see* **Xu, Fei²**
Xu, Fei² (*with* Wang, Huan Chen) A multiobjective interactive decision method based on ideal values and tolerant deviation values. (Chinese. English and Chinese summaries)

90B60 Marketing, advertising [see also 90A60]

Lawler, K. *see* **Ling, M.; et al., (99k:49002)**
Ling, M. (*with* Lawler, K.; McBain, N.; Moscardini, A.) Optimization of advertising resources over time: a strategic analysis. (English summary) (*see* **99k:49002**)
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Burgess, Kevin (*with* Passino, Kevin M.) Path-clearing policies for flexible manufacturing systems. (English summary)
Clark, James W. *see* **Mesak, Hani I., 99b:90028**
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90B70 Theory of organizations, industrial and manpower planning [see also 92H35]

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Feltenmark, Stefan (*with* Kiwiel, Krzysztof C.; Lindberg, Per-Olov) Solving unit commitment problems in power production planning. (English summary) (*see* **99a:90009**)
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Masuch, Michael (*with* Huang, Zhisheng) A case study in logical deconstruction: formalizing J. D. Thompson's organizations in action in a multiagent action logic. (English summary) **99h:90060**
Pollack-Johnson, Bruce Optimal human resource recruiting policies via goal programming. (English summary) **99b:90073**
Rethmann, J. (*with* Wanke, E.) Storage controlled pile-up systems, theoretical foundations. (English summary) (*see* **99a:90009**)
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90B80 Discrete location and assignment [see also 90C10]

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Boffey, Thomas Brian (*with* Narula, Subhash C.) Models for multi-path covering-routing problems. (English summary) **99f:90054**
Brimberg, Jack (*with* Chen, Reuven) A note on convergence in the single facility minisum location problem. (English summary) **99a:90113**
Bruns, Arno (*with* Klose, Andreas) A "locate first—route second" heuristic for a combined location-routeing problem. (English summary) (*see* **99a:90009**)
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Foulds, Leslie R. (*with* Partovi, Fariborz Y.) Integrating the analytic hierarchy process and graph theory to model facilities layout. (English summary) (*see* **99e:90003**)
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Hamacher, Horst W. (*with* Labbé, Martine; Nickel, Stefan) Pareto locations on networks. (*see* **99d:90008**)

Hardin, Jill (*with* Lee, Jon[2]; Leung, Janny) On the Boolean-quadric packing uncapacitated facility-location polytope. (English summary) **99h:90061**
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Pal, Debashis Does Cournot competition yield spatial agglomeration? (English summary) **99d:90067**
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Daniels, K. (*with* Milenkovic, Victor J.) Multiple translational containment. I. An approximate algorithm. (English summary) **99e:68157**
Du, Ding Zhu (*with* Pardalos, Panos M.) Global minimax approaches for solving discrete problems. (English summary) **99a:90142**
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90B85 Continuous location

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Puu, Tönu ★ Mathematical location and land use theory. **99h:90003**
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90B90 Case-oriented studies

Lim, Andrew The berth planning problem. (English summary)

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Apte, Aruna Uday (*with* Jayasuriya, A.; Kennington, J.; Krass, I.; Mohamed, Ramadan Hamed; Sorensen, S.; Whitler, J.) Class scheduling algorithms for Navy training schools. (English summary)
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90Cxx Mathematical programming [see also 49Mxx, 65Kxx]

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(Avriel, Mordecai) *see* **Mathematical programming for industrial engineers, 99g:90006**
(Golany, Boaz) *see* **Mathematical programming for industrial engineers, 99g:90006**
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"A modified Lagrange function for linear programming problems" Erratum: "A modified Lagrange function for linear programming problems" [Izv. Vyssh. Uchebn. Zaved. Mat. **1997**, no. 12, 45–48; MR 99c:90072] by A. A. Golikov and Yu. G. Evtushenko. (Russian)

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Khan, M. Ali (*with* Rath, Kali P.; Sun, Yeneng) On the existence of pure strategy equilibria in games with a continuum of players. (English summary) **99h:90126**
Kim, Taesung (*with* Yannelis, Nicholas C.) Existence of equilibrium in Bayesian games with infinitely many players. (English summary) **99a:90255**
Monderer, Dov *see* **Hart, Sergiu, 99f:90203**
Pascoa, Mario Rui Nash equilibrium and the law of large numbers. (English summary) **99e:90121**
Rath, Kali P. *see* **Khan, M. Ali; et al., 99h:90126**
Sun, Yeneng *see* **Khan, M. Ali; et al., 99h:90126**
Yannelis, Nicholas C. *see* **Kim, Taesung, 99a:90255**

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Anderson, Robert M. Convergence of the Aumann-Davis-Maschler and Geanakoplos bargaining sets. (English summary) **99e:90025**
Ding, Xie Ping Generalized quasivariational inequality, optimization and equilibrium existence problems. (English and Chinese summaries) **99c:49009**
Einy, Ezra (*with* Monderer, Dov; Moreno, Diego) The least core, kernel and bargaining sets of large games. (English summary) **99f:90202**
Monderer, Dov *see* **Einy, Ezra; et al., 99f:90202**
Moreno, Diego *see* **Einy, Ezra; et al., 99f:90202**
Vasil'ev, V. A. The Shapley functional and polar forms of homogeneous polynomial games. (English summary) **99k:90221**

90D15 Stochastic games [see also 93E05]

Bagchi, Arunabha *see* **Ghosh, Mrinal K., 99k:90223**
Başar, Tamer Nash equilibria of risk-sensitive nonlinear stochastic differential games. (English summary) **99m:90174**
Baston, Vic (*with* Gal, Shmuel) Rendezvous on the line when the players' initial distance is given by an unknown probability distribution. (English summary) **99i:90133**
Beltadze, G. N. On the existence of a solution in lexicographic stochastic games. (Russian. English and Georgian summaries)
Cripps, Martin W. Markov bargaining games. (English summary) **99a:90256**
Díaz, Andrés (*with* Pastor, Guillermo) The game of snakes and ladders. (Spanish)
Flesch, J. (*with* Thuijsman, F.; Vrieze, O. J.) Simplifying optimal strategies in stochastic games. (English summary) **99f:90204**
Gal, Shmuel *see* **Baston, Vic, 99i:90133**
Ghosh, Mrinal K. (*with* Bagchi, Arunabha) Stochastic games with average payoff criterion. (English summary) **99k:90223**
Irle, Albrecht Minimax results and randomization for certain stochastic games. (English summary) **99j:90127**
Jéhiel, Philippe Learning to play limited forecast equilibria. (English summary) **99g:90169**
Maitra, Ashok P. (*with* Sudderth, William D.) The gambler and the stopper. (English summary) **99a:90257**
Muruaga, M. A. (*with* Vélez Ibarrola, Ricardo) Asymptotic behavior of continuous stochastic games. (English summary) **99g:90170**
Myerson, Roger B. Population uncertainty and Poisson games. (English summary) **99j:90128**
Pastor, Guillermo *see* **Díaz, Andrés**
Secchi, Piercesare On the existence of good stationary strategies for nonleavable stochastic games. (English summary) **99k:90224**
Sudderth, William D. *see* **Maitra, Ashok P., 99a:90257**
Thuijsman, F. (*with* Vrieze, O. J.) Total reward stochastic games and sensitive average reward strategies. (English summary) **99j:90129**
— *see also* **Flesch, J.; et al., 99f:90204**
Vélez Ibarrola, Ricardo *see* **Muruaga, M. A., 99g:90170**
Vrieze, O. J. *see* **Flesch, J.; et al., 99f:90204** *and* **Thuijsman, F., 99j:90129**
Wang, Qi Yi *see* **Zhang, Sheng Kai; et al.**
Yan, Hui Zhen *see* **Zhang, Sheng Kai; et al.**
Zhang, Sheng Kai (*with* Zhang, Ya Dong; Yan, Hui Zhen; Wang, Qi Yi) Convex linear generalization of random coalition games. (English summary)
— (*with* Zhang, Ya Dong; Yan, Hui Zhen; Wang, Qi Yi) Convex linear extensions of random coalition games. (Chinese. Chinese summary)
Zhang, Ya Dong *see* **Zhang, Sheng Kai; et al.**

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Bally, Vlad Construction of asymptotically optimal controls for control and game problems. (English summary) **99h:93100**
Chen, Ting[1] *see* **Guo, Wen Ge**
Chikrii, Arkadii A. The problem of evasion for controlled dynamical objects. (Russian. English, Russian and Ukrainian summaries)
Cohen, Joel E. Cooperation and self-interest: Pareto-inefficiency of Nash equilibria in finite random games. (English summary) **99k:90214**
Forges, Françoise (*with* Minelli, Enrico) Self-fulfilling mechanisms in Bayesian games. (English summary) **99j:90130**

Fudenberg, Drew (*with* Levine, David K.) ★The theory of learning in games. (English summary) **99i:90121**
Guo, Wen Ge (*with* Chen, Ting[1]) Combined arbitration with incomplete information. (Chinese. English and Chinese summaries)
Hamadène, S. Backward-forward SDE's and stochastic differential games. (English summary) **99j:60085**
Kao, Ming-Yang (*with* Tate, Stephen R.) On-line difference maximization. (English summary) **99k:68080**
Levine, David K. *see* **Fudenberg, Drew, 99i:90121**
Maitra, Ashok P. (*with* Sudderth, William D.) ★Discrete gambling and stochastic games. (English summary) **99c:60091**
Minelli, Enrico *see* **Forges, Françoise, 99j:90130**
Mohan, Srinivasa Raghavan (*with* Neogy, S. K.; Parthasarathy, T.) On linear complementarity and a discounted polystochastic game. (English summary) (*see* **99m:90005**)
Neogy, S. K. *see* **Mohan, Srinivasa Raghavan; et al., (99m:90005)**
Nisio, Makiko On infinite-dimensional stochastic differential games. **99e:49034**
Parthasarathy, T. *see* **Mohan, Srinivasa Raghavan; et al., (99m:90005)**
Sudderth, William D. *see* **Maitra, Ashok P., 99c:60091**
Tate, Stephen R. *see* **Kao, Ming-Yang, 99k:68080**

90D20 Multistage and repeated games

Ayoshin, Dmitri A. *see* **Petrosyan, L. A.; et al., 99j:90132**
Compte, Olivier Communication in repeated games with imperfect private monitoring. (English summary) **99h:90127**
Duffy, John (*with* Feltovich, Nick) Does observation of others affect learning in strategic environments? An experimental study. (English summary)
Faíña-Medín, Andrés (*with* García-Jurado, Ignacio; Méndez-Naya, José; Méndez-Naya, Luciano) Unilateral commitment in the finitely repeated prisoners' dilemma. (English summary) **99i:90134**
Feltovich, Nick *see* **Duffy, John**
Forges, Françoise (*with* Minelli, Enrico) Self-fulfilling mechanisms in Bayesian games. (English summary) **99j:90130**
García-Jurado, Ignacio *see* **Faíña-Medín, Andrés; et al., 99i:90134**
Jackson, Matthew O. (*with* Kalai, Ehud) Erratum: "Social learning in recurring games" [Games Econom. Behav. **21** (1997), no. 1, 102–134; MR 98m:90205].
Kalai, Ehud *see* **Jackson, Matthew O.**
Lagunoff, Roger (*with* Matsui, Akihiko) Asynchronous choice in repeated coordination games. **99c:90169**
Matsui, Akihiko *see* **Lagunoff, Roger, 99c:90169**
Méndez-Naya, José *see* **Faíña-Medín, Andrés; et al., 99i:90134**
Méndez-Naya, Luciano *see* **Faíña-Medín, Andrés; et al., 99i:90134**
Minelli, Enrico *see* **Forges, Françoise, 99j:90130**
Neyman, Abraham (*with* Sorin, Sylvain) Equilibria in repeated games of incomplete information: the general symmetric case. (English summary) **99j:90131**
Nyarko, Yaw Bayesian learning and convergence to Nash equilibria without common priors. (English summary) **99g:90171**
Pearce, David G. (*with* Stacchetti, Ennio) The interaction of implicit and explicit contracts in repeated agency. (English summary) **99a:90258**
Petrosyan, L. A. (*with* Ayoshin, Dmitri A.; Tanaka, Tamaki) Construction of a time consistent core in multichoice multistage games. (English summary) **99j:90132**
Sakaguchi, Minoru A non-zero-sum repeated game—criminal vs police. (English summary) (*see* **99h:90006**)
Selten, Reinhard Multistage game models and delay supergames. (English summary) **99c:90170**
Sorin, Sylvain *see* **Neyman, Abraham, 99j:90131**
Stacchetti, Ennio *see* **Pearce, David G., 99a:90258**
Tanaka, Tamaki *see* **Petrosyan, L. A.; et al., 99j:90132**
Zheng, Ying Wen A kind of multistage Stackelberg strategy. (Chinese. English and Chinese summaries) **99b:90176**

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Amari, Shun-ichi *see* **Hiraoka, Kazuyuki, 99k:90206**
Auer, Peter (*with* Cesa-Bianchi, Nicolò; Freund, Yoav; Schapire, Robert E.) Gambling in a rigged casino: the adversarial multi-armed bandit problem. (English summary) (*see* **99a:68010**)
Bendor, Jonathan (*with* Swistak, Piotr) Evolutionary equilibria: characterization theorems and their implications. (English summary) **99m:90181**
Cesa-Bianchi, Nicolò *see* **Auer, Peter; et al., (99a:68010)**
Chatterjee, Kalyan (*with* Dutta, Bhaskar) Rubinstein auctions: on competition for bargaining partners. (English summary) **99f:90032**
Davis, Douglas D. (*with* Holt, Charles A.) Equilibrium cooperation in two-stage games: experimental evidence. (English summary) **99k:90215**
Dutta, Bhaskar *see* **Chatterjee, Kalyan, 99f:90032**
Flesch, J. (*with* Thuijsman, F.; Vrieze, O. J.) Simplifying optimal strategies in stochastic games. (English summary) **99f:90204**
Freund, Yoav (*with* Kearns, Michael; Mansour, Yishay; Ron, Dana; Rubinfeld, Ronitt; Schapire, Robert E.) Efficient algorithms for learning to play repeated games against computationally bounded adversaries. (*see* **99a:68010**)
— *see also* **Auer, Peter; et al., (99a:68010)**
Frieze, Alan M. (*with* Szpankowski, Wojciech) Greedy algorithms for the shortest common superstring that are asymptotically optimal. (English summary) **99c:68122**
Fudenberg, Drew (*with* Levine, David K.) ★The theory of learning in games. (English summary) **99i:90121**
Gevers, Louis (*with* Michel, Philippe Gaston) Economic dynasties with intermissions. (English summary) **99g:92047**
Harris, Christopher On the rate of convergence of continuous-time fictitious play. (English summary) **99d:90147**
Hiraoka, Kazuyuki (*with* Amari, Shun-ichi) Strategy under the unknown stochastic environment: the nonparametric lob-pass problem. (English summary) **99k:90206**
Holt, Charles A. *see* **Davis, Douglas D., 99k:90215**
Kandori, Michihiro (*with* Matsushima, Hitoshi) Private observation, communication and collusion. (English summary) **99d:90148**
Kearns, Michael *see* **Freund, Yoav; et al., (99a:68010)**
Krishna, Vijay (*with* Sjöström, Tomas) On the convergence of fictitious play. (English summary) **99i:90120**
Kultina, Marya Game-theoretic model of the board election. **99h:90031**
Levine, David K. *see* **Fudenberg, Drew, 99i:90121**
Mansour, Yishay *see* **Freund, Yoav; et al., (99a:68010)**
Matsushima, Hitoshi *see* **Kandori, Michihiro, 99d:90148**
Mertens, Jean-François The speed of convergence in repeated games with incomplete information on one side. (English summary) **99m:90162**
Michel, Philippe Gaston *see* **Gevers, Louis, 99g:92047**
Robles, Jack Evolution with changing mutation rates. (English summary) **99i:90139**
Ron, Dana *see* **Freund, Yoav; et al., (99a:68010)**
Rubinfeld, Ronitt *see* **Freund, Yoav; et al., (99a:68010)**
Sabourian, Hamid Repeated games with M-period bounded memory (pure strategies). (English summary) **99m:90164**
Schapire, Robert E. *see* **Auer, Peter; et al., (99a:68010)** *and* **Freund, Yoav; et al., (99a:68010)**
Schlag, Karl H. Why imitate, and if so, how? A boundedly rational approach to multi-armed bandits. (English summary) **99h:90121**
Sjöström, Tomas *see* **Krishna, Vijay, 99i:90120**
Sonsino, Doron Geanakoplos and Sebenius model with noise. (English summary) **99h:90116**
Swistak, Piotr *see* **Bendor, Jonathan, 99m:90181**
Szpankowski, Wojciech *see* **Frieze, Alan M., 99c:68122**
Thuijsman, F. *see* **Flesch, J.; et al., 99f:90204**
Tomala, Tristan Pure equilibria of repeated games with public observation. (English summary) **99d:90149**
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90D25 Differential games [see also 49N55]

Arutyunyan, L. L. *see* **Melikyan, A. A.; et al., 99m:90177**
Baranovskaya, L. V. *see* **Chikrii, Arkadiĭ A.; et al., 99f:90205**
Beltadze, G. N. On the existence of solutions in lexicographic differential games with complete information. (Russian. English and Georgian summaries)
Carlson, Dean A. Open-loop Nash equilibrium for nonlinear control systems. **99m:90175**
Chen, Lan Sun *see* **Cui, Jingan, 99c:90171**
Chentsov, A. G. Iterative realization of nonanticipating multivalued mappings. (Russian) **99a:90259**
Chikriĭ, Al. A. *see* **Chikrii, Arkadiĭ A.; et al., 99f:90205**
Chikrii, Arkadiĭ A. (*with* Patlanzhoglu, O. M.) On a class of quasilinear differential pursuit games. (Russian. Russian summary) **99f:90206**
— (*with* Baranovskaya, L. V.; Chikriĭ, Al. A.) A game-theoretic approach problem when the control devices fail. (Russian. English, Russian and Ukrainian summaries) **99f:90205**
Cui, Jingan (*with* Chen, Lan Sun) The effect of diffusion on the time varying logistic population growth. (English summary) **99c:90171**
Danilov, N. N. (*with* Permyakov, G. P.) On the β-core in a dynamic quality game with two objective sets. (Russian) (*see* **99m:00021**)
Engwerda, Jacob C. On the open-loop Nash equilibrium in LQ-games. (English summary) **99e:90122**
Gard, Thomas C. Practical persistence in stochastic population models. (English summary) **99k:90225**
Grigorenko, N. L. On the theory of nonstationary dynamic games. (Russian. Russian summary) **99k:90226**
Hyassat, Khaled The averaging method in noncoalitive differential games. (English summary)
Ibragimov, Gafurzhan I. (*with* Kuchkarov, A. Sh.) Optimality of pursuit time in a differential game in a half-space with integral constraints. (Russian. English and Uzbek summaries) **99g:90172**
— On a differential pursuit-evasion game with several pursuers. (Russian. English and Uzbek summaries)
Ivanov, G. E. The ellipsoid method for differential games with a terminal-integral payment. (Russian)
Kaĭgorodov, S. P. On noncooperative dynamic games with a phase constraint and fixed duration. (Russian) (*see* **99m:00021**)
Konstantinov, R. V. On a differential game with incomplete information. (Russian. Russian summary) **99m:90176**
Kuchkarov, A. Sh. *see* **Ibragimov, Gafurzhan I., 99g:90172**
Ligon, Ethan (*with* Narain, Urvashi) Computing the equilibria of dynamic common property games. (English summary) **99c:90172**
Martínez Rodríguez, Julia *see* **Rincón Zapatero, J. P.; et al., 99c:90173**
Martín-Herrán, G. *see* **Rincón Zapatero, J. P.; et al., 99c:90173**
Melikyan, A. A. (*with* Ovakimyan, N. V.; Arutyunyan, L. L.) Games of simple pursuit and approach on a two-dimensional cone. (English summary) **99m:90177**
Narain, Urvashi *see* **Ligon, Ethan, 99c:90172**
Nikol'skiĭ, M. S. Some topical problems in the theory of differential games. (Russian. Russian summary)
Ovakimyan, N. V. *see* **Melikyan, A. A.; et al., 99m:90177**
Pashkov, A. G. *see* **Zemskov, K. A., 99g:90175**
Patlanzhoglu, O. M. *see* **Chikrii, Arkadiĭ A., 99f:90206**
Patsko, V. S. (*with* Turova-Botkina, V. L.) Numerical study of the homicidal chauffeur game. (English summary) (*see* **99d:00026**)
Permyakov, G. P. *see* **Danilov, N. N., (99m:00021)**
Petrosyan, L. A. Agreeable solutions in differential games. **99f:90207**
Petrov, Nikolaĭ Nikandrovich Multiple capture in the Pontryagin example with phase constraints. (Russian. Russian summary) **99e:90123**
Popeea, Cristiana *see* **Tecuceanu, G.**

Rampazzo, Franco Differential games with unbounded versus bounded controls. (English summary) **99f:90208**
Rapaport, A. E. Characterization of barriers of differential games. (English summary) **99g:90173**
Rincón Zapatero, J. P. Hyperbolic systems that arise in differential games. (Spanish) (*see* **99g:00036**)
— (*with* Martínez Rodríguez, Julia; Martín-Herrán, G.) New method to characterize subgame perfect Nash equilibria in differential games. (English summary) **99c:90173**
Smol'yakov, È. R. Cooperative programmed differential games. (Russian. Russian summary) **99c:90174**
— Theorems on the existence of symmetric active equilibria in noncooperative programmed differential games. (Russian. Russian summary) **99g:90174**
— Absolute equilibrium in differential games. (Russian) **99m:90178**
Subbotina, N. N. Asymptotic properties of minimax solutions of Isaacs-Bellman equations in differential games with fast and slow motions. (Russian. Russian summary) **99f:90209**
Tarashnina, Svetlana I. Nash equilibria in differential pursuit game with one pursuer and m evaders. **99m:90179**
Tecuceanu, G. (*with* Popeea, Cristiana) On the open-loop LQ Stackelberg dynamic optimization: the closed-loop implementation of the optimal strategies. (English summary)
Tukhtasinov, M. On the numerical solution of a problem in the theory of differential games in distributed systems. (Russian. English and Uzbek summaries)
Turova-Botkina, V. L. *see* **Patsko, V. S.**, (**99d:00026**)
Zemskov, K. A. (*with* Pashkov, A. G.) Construction of optimal positional strategies in a differential pursuit-evasion game with one pursuer and two evaders. (Russian. Russian summary) **99g:90175**

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Bagchi, Arunabha *see* **Ghosh, Mrinal K.**, **99k:90223**
Baras, John S. (*with* Patel, Nital S.) Robust control of set-valued discrete-time dynamical systems. (English summary) **99a:93089**
(Bardi, Martino) *see* **Stochastic and differential games**, **99m:90005**
Barron, E. N. (*with* Jensen, Robert R.; Liu, Wenxiong) Applications of the Hopf-Lax formula for $u_t + H(u, Du) = 0$. (English summary) **99a:35024**
Başar, Tamer (*with* Olsder, Geert Jan) ★ Dynamic noncooperative game theory. (English summary) **99g:90007**
Borisenok, S. V. Application of the method of convexification to find a multivalued integral. (English summary) **99j:49062**
Di Marco, Silvia C. (*with* Gonzalez, Roberto L. V.) Supersolutions and subsolutions techniques in a minimax optimal control problem with infinite horizon. (English summary) **99i:49033**
(Donets, Y. M.) *see* **Petrosyan, L. A.**, **99d:90001**
Doyen, Luc (*with* Seube, Nicolas) Control of uncertain systems under bounded chattering. (English summary) **99f:93128**
Feng, Shan *see* **Zheng, Li Hui; et al.**
Ghosh, Mrinal K. (*with* Bagchi, Arunabha) Stochastic games with average payoff criterion. (English summary) **99k:90223**
Gonzalez, Roberto L. V. *see* **Di Marco, Silvia C.**, **99i:49033**
Ha, Jun-Hong (*with* Vanualailai, Jito) A collision avoidance control problem for moving objects and a robot arm. (English summary) **99a:70008**
Hohzaki, Ryusuke (*with* Iida, Koji; Kiyama, Masaki) Randomized look strategy for a moving target when a search path is given. (English summary) **99k:90093**
Iida, Koji *see* **Hohzaki, Ryusuke; et al.**, **99k:90093**
Jensen, Robert R. *see* **Barron, E. N.; et al.**, **99a:35024**
Khripunov, A. P. *see* **Ushakov, V. N.**, **99d:49068**
Kikuta, K. (*with* Ruckle, W. H.) Accumulation games. I. Noisy Search. (English summary) **99c:90175**
Kiyama, Masaki *see* **Hohzaki, Ryusuke; et al.**, **99k:90093**
Koike, Shigeaki A comparison result for the state constraint problem of differential games. **99e:49033**
Krasovskiĭ, N. N. (*with* Lukoyanov, N. Yu.) A conflict control problem with hereditary information. (Russian. Russian summary) **99d:93041**
Liu, Wenxiong *see* **Barron, E. N.; et al.**, **99a:35024**
Lukoyanov, N. Yu. (*with* Reshetova, T. N.) Problems of conflict control of functional systems of high dimension. (Russian. Russian summary) **99m:49040**
— *see also* **Krasovskiĭ, N. N.**, **99d:93041**
(Mazalov, Vladimir V.) *see* **Yearbook: Game theory and applications**, **99k:90006**
Melikyan, A. A. ★ Generalized characteristics of first order PDEs. **99j:35020**
Müllers, Katharina Cascades for dynamical games. (English summary) **99h:93007**
Nisio, Makiko On infinite-dimensional stochastic differential games. **99e:49034**
Olsder, Geert Jan *see* **Başar, Tamer**, **99g:90007**
(Parthasarathy, T.) *see* **Stochastic and differential games**, **99m:90005**
Patel, Nital S. *see* **Baras, John S.**, **99a:93089**
Petrosyan, L. A. (*with* Zakharov, Viktor) ★ Mathematical models in environmental policy analysis. **99d:90001**
— *see also* **Yearbook: Game theory and applications**, **99k:90006**
(Raghavan, T. E. S.) *see* **Stochastic and differential games**, **99m:90005**
Reshetova, T. N. *see* **Lukoyanov, N. Yu.**, **99m:49040**
Ruckle, W. H. *see* **Kikuta, K.**, **99c:90175**
Seube, Nicolas *see* **Doyen, Luc**, **99f:93128**
Shaked, Uri *see* **Theodor, Y.**
Theodor, Y. (*with* Shaked, Uri) Output-feedback mixed H_∞/H_2 control—a dynamic game approach. (English summary)
Ugrinovskiĭ, V. A. Robust H_∞ control in the presence of stochastic uncertainty. (English summary) **99i:93021**
Ushakov, V. N. (*with* Khripunov, A. P.) On the approximate construction of solutions in game-theoretic control problems. (Russian. Russian summary) **99d:49068**
Vanualailai, Jito *see* **Ha, Jun-Hong**, **99a:70008**
Wang, An Xing *see* **Zheng, Li Hui; et al.**
Zakharov, Viktor *see* **Petrosyan, L. A.**, **99d:90001**
Zhang, Jing Tian *see* **Zheng, Li Hui; et al.**
Zheng, Li Hui (*with* Feng, Shan; Zhang, Jing Tian; Wang, An Xing) A differential game approach to option pricing: theoretical analysis. (Chinese. English and Chinese summaries)
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90D26 Pursuit and evasion games

Chikrii, Arkadii A. The problem of avoidance for controlled dynamic objects. **99f:90210**
— *see also* **Klimenko, Ye. V.**, **99c:90176** *and* **Rappoport, I. S.**, **99k:90229**
Egorov, R. I. On the stability of ε-optimal strategies in pursuit and evasion games. (Russian) (*see* **99m:00021**)
Ezhkov, S. V. A graphical method for representing variable sets for solving search problems. (Russian. Russian summary)
Gander, Martin J. Note on the optimal intercept time of vessels to a nonzero range. (English summary)
Ibragimov, Gafurzhan I. On a differential game with fixed termination time. (Russian. English and Uzbek summaries) **99i:90135**
— *see also* **Satimov, N. Yu.**, **99m:90180**
Kikuta, K. (*with* Ruckle, W. H.) Accumulation games. I. Noisy Search. (English summary) **99c:90175**
Klimenko, Ye. V. (*with* Chikrii, Arkadii A.) Search methods for moving evaders. (English and Serbian summaries) **99c:90176**
Kumkov, S. S. (*with* Patsko, V. S.) Parallel algorithm for construction of singular surfaces in linear differential games. (English summary) (*see* **99d:00026**)
Patsko, V. S. *see* **Kumkov, S. S.**, (**99d:00026**)
Petrov, Nikolaĭ Nikandrovich Simple pursuit of rigidly linked evaders. (Russian. Russian summary) **99k:90227**
— Group pursuit with phase restrictions. **99d:90153**
— A linear problem of evasion from several pursuers. (Russian. Russian summary) **99k:90228**
Rappoport, I. S. (*with* Chikrii, Arkadii A.) A guaranteed result in a differential game of group pursuit with a terminal payoff function. (Russian. Russian summary) **99k:90229**
Rubinovich, E. Ya. A differential game of programmed pursuit with a constraint on the turn of the evader. (Russian. Russian summary) **99d:90154**
Ruckle, W. H. *see* **Kikuta, K.**, **99c:90175**
Satimov, N. Yu. (*with* Ibragimov, Gafurzhan I.) The structure of optimal strategies in simultaneous pursuit games in Hilbert spaces. (Russian. English and Uzbek summaries) **99m:90180**
Shao, Jian A sufficient condition for the optimality of a differential game with a time constraint. (Chinese. English and Chinese summaries)
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90D35 Decision theory for games [see also 62Cxx, 90A05, 90B50]

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— *see also* **Stalnaker, Robert**
Kajii, Atsushi (*with* Morris, Stephen Edward) Payoff continuity in incomplete information games. (English summary) **99k:90230**
Lehrer, Ehud (*with* Smorodinsky, Rann) Merging and learning. (English summary) **99c:90177**
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Skorin-Kapov, Darko On some cost allocation problems in communication networks. (English and Croatian summaries) **99i:90131**
Vermeulen, A. J. (*with* Jansen, M. J. M.) Extending invariant solutions. (English summary) **99a:90247**
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90D40 Game-theoretic models [see also 65Cxx]

Alexander, Robert R. *see* **Bhat, Mahadev G.; et al.**
Aumann, Robert J. On the centipede game. (English summary) **99a:90261**
Bendor, Jonathan (*with* Swistak, Piotr) Evolutionary equilibria: characterization theorems and their implications. (English summary) **99m:90181**
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Goenka, Aditya (*with* Kelly, David L.; Spear, Stephen E.) Endogenous strategic business cycles. (English summary) **99m:90053**
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90D42 Positional games

Beck, József Foundations of positional games. (English summary) **99h:90128**

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Bode, Jens-P. (*with* Harborth, Heiko) Achievement games on Platonic solids. (English summary) **99d:05020**
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90D43 Games involving graphs

Bhadury, Joyendu *see* **Eiselt, H. A., 99f:90212**
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Eiselt, H. A. (*with* Bhadury, Joyendu) Reachability of locational equilibria. (English and German summaries) **99f:90212**
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Lebedev, V. N. A new equilibrium in cyclic games on graphs. (Russian. Russian summary) **99f:90213**
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Łuczak, Tomasz *see* **Duffus, Dwight; et al., 99m:90183**
Neufeld, Stewart W. (*with* Nowakowski, Richard J.) A game of cops and robbers played on products of graphs. (English summary) **99k:90233**
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Herscovici, David S. (*with* Higgins, Aparna W.) The pebbling number of $C_5 \times C_5$. (English summary) **99d:05082**
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Phillips, Steven J. (*with* Westbrook, Jeffery R.) On-line load balancing and network flow. (English summary) **99d:68033**
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90D44 Games involving topology or set theory

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Debs, G. (*with* Saint Raymond, J.) Some applications of game determinacy. **99c:90180**
Ding, Xie Ping Equilibria of noncompact generalized games with correspondences without open lower sections. (English summary) **99g:90178**
Méndez-Naya, Luciano Weak topology and infinite matrix games. (English summary) **99m:90184**
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Darby, Carl (*with* Laver, Richard) Countable length Ramsey games. (English summary) **99b:03062**
Furth, Dave The core of the inductive limit of a direct system of economies with a communication structure. (English summary) **99m:90037**
Komiya, Hidetoshi K-K-M-S type theorems in infinite-dimensional spaces. (English summary) **99h:49038**
Kukushkin, N. S. Fixed point theorems for systems of decreasing functions with additive aggregation. (Russian) **99m:90039**
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Scheepers, Marion Lusin sets. (English summary) **99b:03066**
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Zsilinszky, László Topological games and hyperspace topologies. (English summary) **99g:54005**

90D46 Combinatorial games

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Eguiazarova, Elina V. The regularized Shapley value for a bin packing game. **99b:90177**
Fomin, F. V. (*with* Golovach, P. A.; Petrov, Nikolaĭ Nikolaevich) Search problems on 1-skeletons of regular polyhedrons. **99b:90178**
Fraenkel, Aviezri S. Multivision: an intractable impartial game with a linear winning strategy. **99j:90134**
— (*with* Ozery, Michal) Adjoining to Wythoff's game its P-positions as moves. (English summary) **99m:90185**
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Il'ev, Victor P. (*with* Parfenova, Irina B.) On the games over matroids. **99m:90186**
Mel'nikov, B. F. (*with* Radionov, A. N.) On the choice of strategy in nondeterministic antagonistic games. (Russian. Russian summary)
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Radionov, A. N. *see* **Mel'nikov, B. F.**
Sáez-Martí, María On the asymptotic convergence to mixed equilibria in 2×2 asymmetric games. (English summary) **99a:90263**

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Faigle, Ulrich (*with* Fekete, Sándor P.; Hochstättler, Winfried; Kern, Walter) On approximately fair cost allocation in Euclidean TSP games. (English and German summaries) **99h:90118**
Fekete, Sándor P. *see* **Faigle, Ulrich; et al., 99h:90118**
Goorskey, David (*with* Simoson, Andrew) Antimagic pickup sticks. **99d:90155**
Hochstättler, Winfried *see* **Faigle, Ulrich; et al., 99h:90118**
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Kuipers, Jeroen Bin packing games. (English summary) **99g:90168**
Sarkar, Palash σ^+-automata on square grids. (English summary) **99j:68090**
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90D50 Discrete-time games

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Slobozhanin, N. M. Control in conflict discrete processes with information lag. (Russian. English and Russian summaries) (*see* **99a:00014**)

90D60 Probabilistic games; gambling

Mazalov, Vladimir V. (*with* Sakaguchi, Minoru) Two person hi-lo poker—stud and draw. II. **99h:90130**
Robson, Arthur J. Naive adaptive behavior and the observability of gambles. (English summary) **99h:90131**
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Zin, Md. Hanafiah Md. Expected duration of a classical gambling game involving two players when the coin is symmetric. (English summary) (*see* **99g:00046**)

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Baston, Vic (*with* Gal, Shmuel) Rendezvous on the line when the players' initial distance is given by an unknown probability distribution. (English summary) **99i:90133**
Borovkov, K. A. An estimate for the distribution of a stopping time for a stochastic system. (Russian. Russian summary) **99k:60113**
Dror, Moshe (*with* Hartman, Bruce C.) Stopping rules for utility functions and the St. Petersburg gamble. (English summary) **99k:90038**
Gal, Shmuel *see* **Baston, Vic, 99i:90133**
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Ramakrishnan, Subramanian (*with* Sudderth, William D.) Geometric convergence of algorithms in gambling theory. (English summary) **99j:60056**
Secchi, Piercesare On the existence of good stationary strategies for nonleavable stochastic games. (English summary) **99k:90224**
Sonsino, Doron Geanakoplos and Sebenius model with noise. (English summary) **99h:90116**
Stanford, William On the number of pure strategy Nash equilibria in finite common payoffs games. (English summary) **99j:90117**
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90D65 Hierarchical games

Rasulov, A. A. On a property of the function of best responses in a hierarchical game of a special type. (Russian. English and Uzbek summaries)

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Dempe, Stephan An implicit function approach to bilevel programming problems. (English summary) **99b:90118**
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Li, Guang Quan *see* **Wang, Chun Feng; et al.**
Lignola, Maria Beatrice (*with* Morgan, Jacqueline) Existence of solutions to generalized bilevel programming problem. (English summary) **99f:90145**
Liu, Guo Shan (*with* Han, Ji Ye; Wang, Shou Yang) A trust region algorithm for bilevel programming problems. (English summary) **99i:90087**
Malhotra, Neelam (*with* Arora, Savita) Optimality conditions for linear fractional bilevel programs. (English summary)
Morgan, Jacqueline *see* **Lignola, Maria Beatrice, 99f:90145**
Nishizaki, Ichiro *see* **Sakawa, Masatoshi**
Outrata, J. V. (*with* Kočvara, Michal; Zowe, Jochem) ★ Nonsmooth approach to optimization problems with equilibrium constraints. (English summary) **99h:90002**
Sakawa, Masatoshi (*with* Nishizaki, Ichiro) A fuzzy programming method for a 2-level linear programming problem. (Japanese)
Wang, Chun Feng (*with* Li, Guang Quan; Zheng, Pi E) Two-level optimization problems: necessary condition and algorithms. (Chinese. English and Chinese summaries)
Wang, Huan Chen *see* **Xu, Fei[2]; et al.**
Wang, Shou Yang *see* **Liu, Guo Shan; et al., 99i:90087** *and* **Jia, Fuchen; et al., 99i:90096**
Xu, Fei[2] (*with* Wang, Huan Chen; Guo, Yao Huang) Optimality conditions for multiobjective nonsmooth hierarchical optimization problems. (Chinese. English and Chinese summaries)
Yang, Fengmei *see* **Jia, Fuchen; et al., 99i:90096**
Zheng, Pi E *see* **Wang, Chun Feng; et al.**
Zowe, Jochem *see* **Outrata, J. V.; et al., 99h:90002**

90D80 Applications of game theory

Belyankin, G. A. *see* **Morozov, Vladimir Viktorovich; et al., 99m:90187**
Bezhuashvili, B. T. *see* **Morozov, Vladimir Viktorovich; et al., 99m:90187**
Morozov, Vladimir Viktorovich (*with* Belyankin, G. A.; Bezhuashvili, B. T.) A game-theoretic approach to a pattern recognition problem. (Russian. Russian summary) **99m:90187**

Items listed otherwise than by author

Report of the Round Table on mathematical games Report of the Round Table on mathematical games. (*see* **99e:00019**)

Items with secondary classifications in 90D80

Bilbao, Jesús Mario (*with* Jiménez-Losada, Andrés; López Vázquez, Jorge) The Banzhaf power index on convex geometries. (English summary) **99k:90213**
Chichilnisky, Graciela Market arbitrage, social choice and the core. (English summary) **99i:90010**
Clarke, Stephen R. (*with* Norman, John M.) Dynamic programming in cricket: protecting the weaker batsman. (English summary) **99g:90164**
Cohen, Yosef (*with* Vincent, Thomas L.) The dynamics of evolutionary stable strategies. (English summary) **99g:92019**
Conolly, Brian (*with* Vajda, Steven) ★ A mathematical kaleidoscope. (English summary)
Cowen, Robert Julian (*with* Fisher, Paul) Security Council reform. A game-theoretic analysis. I. (English summary)
Davidson, M. R. (*with* Novikova, N. M.) The constraint aggregation method in a game-theoretic problem of stochastic programming. (Russian. Russian summary) **99k:90110**
Dokuchaev, N. G. Control of Cordes-type diffusion with incomplete observation and in a game-theoretic problem. (Russian. Russian summary) **99k:93094**
Fisher, Paul *see* **Cowen, Robert Julian**
(Grantham, W. J.) *see* **Cohen, Yosef, 99g:92019**
Jiménez-Losada, Andrés *see* **Bilbao, Jesús Mario; et al., 99k:90213**
Lahiri, Somdeb A reduced game property for the egalitarian choice function. (English summary) **99k:90011**
López Vázquez, Jorge *see* **Bilbao, Jesús Mario; et al., 99k:90213**
McKelvey, Robert Game-theoretic insights into the international management of fisheries. (English summary) **99c:90037**
Miyake, Mitsunobu On the incentive properties of multi-item auctions. (English summary) **99i:90043**
Nieuwenhuizen, Th. M. The marriage problem and the fate of bachelors. (English summary) **99c:92004**
Nishizaki, Ichiro (*with* Sakawa, Masatoshi) A computational method for solutions to multiobjective linear production programming games. (Japanese) (*see* **99h:90006**)
Norman, John M. *see* **Clarke, Stephen R., 99g:90164**
Novikova, N. M. *see* **Davidson, M. R., 99k:90110**
Page, Frank H., Jr. Existence of optimal auctions in general environments. (English summary) **99h:90033**
Sakawa, Masatoshi *see* **Nishizaki, Ichiro, (99h:90006)**
Sigmund, Karl The social life of automata. (English summary) **99m:92016**
Skorin-Kapov, Darko Hub network games. (English summary) **99c:90167**
Sudhölter, Peter Axiomatizations of game theoretical solutions for one-output cost sharing problems. (English summary) **99i:90023**
Teraoka, Yoshinobu *see* **Zhang, Yongxin**
Vajda, Steven *see* **Conolly, Brian**
Vincent, Thomas L. *see* **Cohen, Yosef, 99g:92019**
Zhang, Yongxin (*with* Teraoka, Yoshinobu) A location game of spatial competition. (English summary)

90D99 None of the above, but in this section

Items with secondary classifications in 90D99

Ding, Xie Ping (*with* Yuan, Xian-Zhi) The study of existence of equilibria for generalized games without lower semicontinuity in locally topological vector spaces. (English summary) **99k:90066**
Newborn, Monty Outsearching Kasparov. (*see* **99g:68162**)
Vovk, Vladimir G. A game of prediction with expert advice. (English summary) **99m:68201**
Yuan, Xian-Zhi *see* **Ding, Xie Ping, 99k:90066**

92–XX Biology and other natural sciences, behavioral sciences

92–01 Instructional exposition (textbooks, tutorial papers, etc.)

Items with secondary classifications in 92–01

Dewey, T. Gregory ★ Fractals in molecular biophysics. **99i:92003**
Epstein, Joshua M. ★ Nonlinear dynamics, mathematical biology, and social science. (English summary) **99a:92042**
Manly, Bryan F. J. ★ Randomization, bootstrap and Monte Carlo methods in biology. (English summary) **99b:92002**

92–02 Research exposition (monographs, survey articles)

(Alt, René) *see* **Cherruault, Yves, 99e:92001**
Bazykin, A. D. ★ Nonlinear dynamics of interacting populations. (English summary) **99k:92001**
(Bazykin, Dmitry A.) *see* **Bazykin, A. D., 99k:92001**
(Bazykin, Yegor A.) *see* **Bazykin, A. D., 99k:92001**
(Berliocchi, Henri) *see* **Cherruault, Yves, 99e:92001**
Cherruault, Yves ★ Modèles et méthodes mathématiques pour les sciences du vivant. (French. French summary) [Mathematical models and methods for the life sciences] **99e:92001**
(Grimalt Ivars, Pedro) *see* **Cherruault, Yves, 99e:92001**
(Khibnik, A. I.) *see* **Bazykin, A. D., 99k:92001**
(Krauskopf, Bernd) *see* **Bazykin, A. D., 99k:92001**
(Kryukova, Elena P.) *see* **Bazykin, A. D., 99k:92001**
(Mora Martínez, Gaspar) *see* **Cherruault, Yves, 99e:92001**
(Rudall, Brian H.) *see* **Cherruault, Yves, 99e:92001**

Items listed otherwise than by author

Biography:
Bazykin, A. D. *see* **Bazykin, A. D., 99k:92001**

Items with secondary classifications in 92–02

Cushing, Jim M. ★ An introduction to structured population dynamics. (English summary) **99k:92024**
Hofbauer, Josef (*with* Sigmund, Karl) ★ Evolutionary games and population dynamics. (English summary) **99h:92027**
Meyers, Ronald E. *see* **Zak, Michail; et al., 99c:92010**
Sigmund, Karl *see* **Hofbauer, Josef, 99h:92027**
Zak, Michail (*with* Zbilut, Joseph P.; Meyers, Ronald E.) ★ From instability to intelligence. (English summary) **99c:92010**
Zbilut, Joseph P. *see* **Zak, Michail; et al., 99c:92010**

Items listed otherwise than by author

Lecture Notes in Physics. New Series m: Monographs *see* **Zak, Michail; et al., 99c:92010**

92–03 Historical (must also be assigned at least one classification number from Section 01)

Barabasheva, Yu. M. *see* **Tutubalin, V. N.; et al., 99g:92001**
Devyatkova, G. N. *see* **Tutubalin, V. N.; et al., 99g:92001**
Grigoryan, Aleksandr Arkad'evich *see* **Tutubalin, V. N.; et al., 99g:92001**
Tutubalin, V. N. (*with* Barabasheva, Yu. M.; Grigoryan, Aleksandr Arkad'evich; Devyatkova, G. N.; Uger, E. G.) Differential equations in ecology: historical-methodological reflection. (Russian. English and Russian summaries) **99g:92001**
Uger, E. G. *see* **Tutubalin, V. N.; et al., 99g:92001**

Items with secondary classifications in 92–03

Idlis, G. M. The unity of natural science according to Bohr and uniform interconnected periodic systems in physics, chemistry, biology and psychology. II. (Russian) (*see* **99g:01002**)

92–04 Explicit machine computation and programs (not the theory of computation or programming)

Revesz, Peter Z. Refining restriction enzyme genome maps. (English summary) **99c:92001**

92–06 Proceedings, conferences, collections, etc.

(Agur, S.) *see* **Epidemiology, cellular automata, and evolution, 99m:92001** *and* **Deterministic models with applications in population dynamics and other fields of biology, 99m:92002**
(Arino, Ovide) *see* **Advances in mathematical population dynamics—molecules, cells and man, 99d:92001**
(Axelrod, D.) *see* **Advances in mathematical population dynamics—molecules, cells and man, 99d:92001**
(Butler, Geoffrey J.) *see* **Conference: Differential Equations and Mathematical Biology**
(Cushing, Jim M.) *see* **Epidemiology, cellular automata, and evolution, 99m:92001** *and* **Deterministic models with applications in population dynamics and other fields of biology, 99m:92002**
(Diekmann, Odo) *see* **Epidemiology, cellular automata, and evolution, 99m:92001** *and* **Deterministic models with applications in population dynamics and other fields of biology, 99m:92002**
(Farach-Colton, Martin) *see* **Mathematical support for molecular biology, 99k:92003**
(Gyllenberg, Mats) *see* **Epidemiology, cellular automata, and evolution, 99m:92001** *and* **Deterministic models with applications in population dynamics and other fields of biology, 99m:92002**
(Heesterbeek, H.) *see* **Epidemiology, cellular automata, and evolution, 99m:92001** *and* **Deterministic models with applications in population dynamics and other fields of biology, 99m:92002**
(Jagers, Peter) *see* **Epidemiology, cellular automata, and evolution, 99m:92001** *and* **Deterministic models with applications in population dynamics and other fields of biology, 99m:92002**
(Kaczorek, Tadeusz) *see* **Recent developments in two-dimensional linear systems theory, 99a:92001**
(Kimmel, Marek) *see* **Advances in mathematical population dynamics—molecules, cells and man, 99d:92001**; **Epidemiology, cellular automata, and evolution, 99m:92001** *and* **Deterministic models with applications in population dynamics and other fields of biology, 99m:92002**
(Kostova, T.) *see* **Epidemiology, cellular automata, and evolution, 99m:92001** *and* **Deterministic models with applications in population dynamics and other fields of biology, 99m:92002**
(Milner, Fabio A.) *see* **Epidemiology, cellular automata, and evolution, 99m:92001** *and* **Deterministic models with applications in population dynamics and other fields of biology, 99m:92002**
(Nehaniv, Chrystopher L.) *see* **Mathematical and computational biology, 99k:92002**
(Roberts, Fred S.) *see* **Mathematical support for molecular biology, 99k:92003**
(Ruan, Shi Gui) *see* **Differential equations with applications to biology, 99g:92002**
(Vingron, Martin) *see* **Mathematical support for molecular biology, 99k:92003**
(Waterman, Michael S.) *see* **Mathematical support for molecular biology, 99k:92003**
(Wolkowicz, Gail S. K.) *see* **Differential equations with applications to biology, 99g:92002**
(Wu, Jian Hong) *see* **Differential equations with applications to biology, 99g:92002**

Items listed otherwise than by author

Advances in mathematical population dynamics—molecules, cells and man ★ Advances in mathematical population dynamics—molecules, cells and man. **99d:92001**
Aizu-Wakamatsu City ★ Mathematical and computational biology. **99k:92002**
Conference:
Deterministic and Stochastic Modelling of Biological Interaction ★ Epidemiology, cellular automata, and evolution. **99m:92001**
— ★ Deterministic models with applications in population dynamics and other fields of biology. **99m:92002**
Differential Equations and Mathematical Biology ★ Geoffrey J. Butler Memorial Conference in Differential Equations and Mathematical Biology.
— ★ Geoffrey J. Butler Memorial Conference in Differential Equations and Mathematical Biology.
— ★ Geoffrey J. Butler Memorial Conference in Differential Equations and Mathematical Biology.
Differential Equations with Applications to Biology ★ Differential equations with applications to biology. **99g:92002**
Mathematical Chemistry ★ Girona 97 special issue. **99c:92002**
Mathematical Population Dynamics ★ Advances in mathematical population dynamics—molecules, cells and man. **99d:92001**
Deterministic models with applications in population dynamics and other fields of biology ★ Deterministic models with applications in population dynamics and other fields of biology. **99m:92002**
Differential equations with applications to biology ★ Differential equations with applications to biology. **99g:92002**
Edmonton, AB ★ Geoffrey J. Butler Memorial Conference in Differential Equations and Mathematical Biology.
— ★ Geoffrey J. Butler Memorial Conference in Differential Equations and Mathematical Biology.
— ★ Geoffrey J. Butler Memorial Conference in Differential Equations and Mathematical Biology.
Epidemiology, cellular automata, and evolution ★ Epidemiology, cellular automata, and evolution. **99m:92001**
Girona ★ Girona 97 special issue. **99c:92002**
Halifax, NS ★ Differential equations with applications to biology. **99g:92002**
Houston, TX ★ Advances in mathematical population dynamics—molecules, cells and man. **99d:92001**
Mathematical and computational biology ★ Mathematical and computational biology. **99k:92002**
Mathematical support for molecular biology ★ Mathematical support for molecular biology. **99k:92003**
Recent developments in two-dimensional linear systems theory ★ Recent developments in two-dimensional linear systems theory. **99a:92001**
Seminar:
Molecular Similarity ★ Girona 97 special issue. **99c:92002**
Sofia ★ Epidemiology, cellular automata, and evolution. **99m:92001**
— ★ Deterministic models with applications in population dynamics and other fields of biology. **99m:92002**
Special Issue:
Girona 97 ★ Girona 97 special issue. **99c:92002**
Recent developments in two-dimensional linear systems theory ★ Recent developments in two-dimensional linear systems theory. **99a:92001**
Special Year:
Mathematical Support for Molecular Biology ★ Mathematical support for molecular biology. **99k:92003**
Workshop:
Mathematical and Computational Biology ★ Mathematical and computational biology. **99k:92002**

Items with secondary classifications in 92–06

(Alt, Wolfgang) *see* **Dynamics of cell and tissue motion, 99a:92008**
(Århem, Peter) *see* **Matter matters?, 99a:92044**
(Börgers, Christoph) *see* **Computational radiology and imaging, 99m:92012**
(Butler, Geoffrey J.) *see* **Conference: Differential Equations and Mathematical Biology**
(Deutsch, Andreas) *see* **Dynamics of cell and tissue motion, 99a:92008**

(Donnelly, Peter) *see* **Progress in population genetics and human evolution, 99h:92016**
(Dunn, Graham A.) *see* **Dynamics of cell and tissue motion, 99a:92008**
(Hida, Takeyuki) *see* **Advanced mathematical approach to biology, 99c:92005**
(Liljenström, Hans) *see* **Matter matters?, 99a:92044**
(Müller, Stefan C.) *see* **Perspective look at nonlinear media, 99d:00025**
(Natterer, Frank) *see* **Computational radiology and imaging, 99m:92012**
(Orsucci, Franco) *see* **Complex matters of the mind, 99e:92041**
(Parisi, Jürgen) *see* **Perspective look at nonlinear media, 99d:00025**
(Ramm, Alexander G.) *see* **Inverse problems, tomography, and image processing, 99a:00030**
(Rubin, Harvey) *see* **DNA based computers, 99m:68008**
(Svedin, Uno) *see* **Matter matters?, 99a:92044**
(Tavaré, Simon) *see* **Progress in population genetics and human evolution, 99h:92016**
(Wood, David Harlan) *see* **DNA based computers, 99m:68008**
(Zimmermann, Walter) *see* **Perspective look at nonlinear media, 99d:00025**

Items listed otherwise than by author

Abisko ★ Matter matters? **99a:92044**
Advanced mathematical approach to biology ★ Advanced mathematical approach to biology. **99c:92005**
Complex matters of the mind ★ The complex matters of the mind. **99e:92041**
Computational radiology and imaging ★ Computational radiology and imaging. **99m:92012**
Conference:
Chaos, Fractals and Models ★ The complex matters of the mind. **99e:92041**
Differential Equations and Mathematical Biology ★ Geoffrey J. Butler Memorial Conference in Differential Equations and Mathematical Biology.
Congress:
ISAAC ★ Inverse problems, tomography, and image processing. **99a:00030**
DNA based computers ★ DNA based computers. III. **99m:68008**
Dynamics of cell and tissue motion ★ Dynamics of cell and tissue motion. **99a:92008**
Edmonton, AB ★ Geoffrey J. Butler Memorial Conference in Differential Equations and Mathematical Biology.
Inverse problems, tomography, and image processing ★ Inverse problems, tomography, and image processing. **99a:00030**
Lecture Notes in Physics ★ A perspective look at nonlinear media. **99d:00025**
Matter matters? ★ Matter matters? **99a:92044**
Minneapolis, MN ★ Progress in population genetics and human evolution. **99h:92016**
— ★ Computational radiology and imaging. **99m:92012**
Newark, DE ★ Inverse problems, tomography, and image processing. **99a:00030**
Pavia ★ The complex matters of the mind. **99e:92041**
Perspective look at nonlinear media ★ A perspective look at nonlinear media. **99d:00025**
Philadelphia, PA ★ DNA based computers. III. **99m:68008**
Progress in population genetics and human evolution ★ Progress in population genetics and human evolution. **99h:92016**
Röttgen ★ Dynamics of cell and tissue motion. **99a:92008**
Session:
Inverse Problems ★ Inverse problems, tomography, and image processing. **99a:00030**
Tomography and Image Processing ★ Inverse problems, tomography, and image processing. **99a:00030**
Workshop:
Cell and Tissue Motion ★ Dynamics of cell and tissue motion. **99a:92008**
Computational Radiology and Imaging: Therapy and Diagnostics ★ Computational radiology and imaging. **99m:92012**
DNA Based Computers ★ DNA based computers. III. **99m:68008**
Mathematical Population Genetics ★ Progress in population genetics and human evolution. **99h:92016**
Matter Matters? On the Material Basis of the Cognitive Activity of Mind ★ Matter matters? **99a:92044**

92–08 Computational methods

Bartuccelli, M. V. *see* **Gourley, S. A., 99d:92002**
Gourley, S. A. (*with* Bartuccelli, M. V.) Parameter domains for instability of uniform states in systems with many delays. (English summary) **99d:92002**
Reif, John H. Local parallel biomolecular computation. (English summary) (*see* **99m:68008**)

Items with secondary classifications in 92–08

Abakumov, M. V. (*with* Gavrilyuk, K. V.; Esikova, N. B.; Lukshin, An. V.; Mukhin, S. I.; Sosnin, N. V.; Tishkin, V. F.; Favorskiĭ, A. P.) A mathematical model of the hemodynamics of a cardio-vascular system. (Russian. Russian summary) **99b:92017**
Esikova, N. B. *see* **Abakumov, M. V.; et al., 99b:92017**
Favorskiĭ, A. P. *see* **Abakumov, M. V.; et al., 99b:92017**
Gavrilyuk, K. V. (*with* Lukshin, An. V.) On the method of point markers in problems of hemodynamics. (Russian. Russian summary) **99c:92016**
— *see also* **Abakumov, M. V.; et al., 99b:92017**
Lukshin, An. V. *see* **Abakumov, M. V.; et al., 99b:92017** *and* **Gavrilyuk, K. V., 99c:92016**
Mukhin, S. I. *see* **Abakumov, M. V.; et al., 99b:92017**
Sosnin, N. V. *see* **Abakumov, M. V.; et al., 99b:92017**
Tishkin, V. F. *see* **Abakumov, M. V.; et al., 99b:92017**
Unemi, Tatsuo A simple evolvable development system in Euclidean space. (English summary) **99m:92007**

92Bxx Mathematical biology in general

92B05 General biology and biomathematics

Baas, N. A. Self-organization and higher order structures. (*see* **99k:92005**)
Bookstein, Fred L. ★ Morphometric tools for landmark data. **99d:92003**
Brewley, Denise N. *see* **Mickens, Ronald E.; et al., 99d:92004**
Eisenfeld, J. Reply to: "Computer algebra is indispensible in some problems of mathematical biology" [Math. Biosci. **151** (1998), no. 2, 219–225; MR 99i:92001] by Q. Zheng. **99i:92002**
He, Wei *see* **Kang, Li Shan, 99c:92003**
Heudin, Jean-Claude A new candidate rule for the game of two-dimensional Life. (English summary) **99e:92002**
Hida, Takeyuki White noise analysis with special emphasis on applications to biology. (English summary) (*see* **99c:92005**)
— *see also* **Advanced mathematical approach to biology, 99c:92005**
Jakiela, Mark J. *see* **Saitou, Kazuhiro, 99k:92004**
Kang, Li Shan (*with* He, Wei) An improved GA for combinational logic expressions. (English summary) **99c:92003**
Kendall, Bruce E. (*with* Schaffer, W. M.; Tidd, C. W.; Olsen, Lars F.) The impact of chaos on biology: promising directions for research. (English summary) (*see* **99d:00006**)
Krupchatnikov, V. N. Simulation of CO_2 exchange processes in the atmosphere-surface biomes system by the climatic model ECSib. (English summary)
Leguizamón, C. A. (*with* Zaretzky, A. N.) Lattices due to increasing low energy relational processes. (English summary) **99e:92003**
— *see also* **Zaretzky, A. N., 99d:92005**
Lohn, Jason D. Cellular space models of self-replicating systems. (English summary) (*see* **99k:92002**)
Mickens, Ronald E. (*with* Brewley, Denise N.; Russell, Matasha L.) A model of dieting. (English summary) **99d:92004**
Miramontes, Pedro (*with* Sánchez Garduño, Faustino) Elegant variables: a method for determining the parameters of simple mathematical models in biology. (Spanish)
Nieuwenhuizen, Th. M. The marriage problem and the fate of bachelors. (English summary) **99c:92004**
Olsen, Lars F. *see* **Kendall, Bruce E.; et al., (99d:00006)**
Othmer, Hans G. (*with* Stevens, Angela) Aggregation, blowup, and collapse: the ABCs of taxis in reinforced random walks. (English summary) **99b:92001**
Russell, Matasha L. *see* **Mickens, Ronald E.; et al., 99d:92004**
Saitou, Kazuhiro (*with* Jakiela, Mark J.) On classes of one-dimensional self-assembling automata. (English summary) **99k:92004**
Sánchez Garduño, Faustino *see* **Miramontes, Pedro**
Schaffer, W. M. *see* **Kendall, Bruce E.; et al., (99d:00006)**
(Schweitzer, Frank) *see* **Self-organization of complex structures, 99k:92005**
Shiner, J. S. Self-organization, entropy and order in growing systems. (*see* **99k:92005**)
Stevens, Angela *see* **Othmer, Hans G., 99b:92001**
Tidd, C. W. *see* **Kendall, Bruce E.; et al., (99d:00006)**
Wang, Shu He Voronoï networks of disordered structures in a box. (Chinese. English and Chinese summaries)
Zaretzky, A. N. (*with* Leguizamón, C. A.) Changing algebras in low energy biologic relational processes. (English summary) **99d:92005**
— *see also* **Leguizamón, C. A., 99e:92003**
Zheng, Qi[2] Computer algebra is indispensable in some problems of mathematical biology. **99i:92001**
— *see also* **Eisenfeld, J., 99i:92002**

Items listed otherwise than by author

Advanced mathematical approach to biology ★ Advanced mathematical approach to biology. **99c:92005**
Berlin ★ Self-organization of complex structures. **99k:92005**
Conference:
Self-organization of Complex Structures ★ Self-organization of complex structures. **99k:92005**
Self-organization of complex structures ★ Self-organization of complex structures. **99k:92005**

Items with secondary classifications in 92B05

Acerenza, Luis Periodic behavior and chaos in biochemical systems. (Spanish) (*see* **99m:58004**)
(Alt, René) *see* **Cherruault, Yves, 99c:92001**
Antonelli, Peter L. (*with* Zastawniak, Tomasz) Stochastic calculus on Finsler manifolds and an application in biology [MR 95h:58142]. (*see* **99i:58003**)
(Berliocchi, Henri) *see* **Cherruault, Yves, 99c:92001**
Bui, Quang M. (*with* Huggins, Richard M.) Robust inference for the bivariate bifurcating autoregressive model. (English summary) **99d:62084**
Cherniga, R. M. New ansätze and exact solutions for nonlinear reaction-diffusion equations arising in mathematical biology. (English summary) **99c:35107**
Chernyak, Yuri B. *see* **Feldman, A. B.; et al., 99d:92008**
Cherruault, Yves ★ Modèles et méthodes mathématiques pour les sciences du vivant. (French. French summary) [Mathematical models and methods for the life sciences] **99c:92001**
Cohen, Richard J. *see* **Feldman, A. B.; et al., 99d:92008**
Csuhaj-Varjú, Erzsébet Eco-grammar systems: recent results and perspectives. (English summary) (*see* **99d:68155**)
— (*with* Păun, Gheorghe; Salomaa, Arto) Conditional tabled eco-grammar systems. (English summary) (*see* **99d:68155**)
Dassow, Jürgen (*with* Mihalache, Valeria) Eco-grammar systems, matrix grammars and E0L systems. (English summary) (*see* **99d:68155**)
— An example of an eco-grammar system: a can collecting robot. (*see* **99d:68155**)
De Bonis, Annalisa (*with* Vaccaro, Ugo) Improved algorithms for group testing with inhibitors. (English summary) **99d:68092**
Dewey, T. Gregory ★ Fractals in molecular biophysics. **99i:92003**
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Torres, J. J. (*with* Garrido, P. L.; Marro, J.) Neural networks with fast time-variation of synapses. (English summary) **99e:82075**
Trillas, E. *see* **Castro, J. L., 99c:03032**
Tseng, H. Chris *see* **Liu, J. Gary**
Turán, György (*with* Vatan, Farrokh) Linear decision lists and partitioning algorithms for the construction of neural networks. (English summary) **99k:68166**
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Vidyasagar, Mathukumalli ★ A theory of learning and generalization. **99e:68138**
Wang, Liuyue ★ Neural networks for data compression, fitting, and blind signal separation.
Wasson, Eugene C. *see* **Fogel, David B.; et al.** *and* **(99b:90008)**
Wu, Jian Hong Symmetric functional-differential equations and neural networks with memory. (English summary) **99i:34104**
Xu, Xiao Ming *see* **Chen, Ya Jun; et al., 99g:68171**
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Adaptive Information Technologies ★ Neural networks and their applications. **99b:68161**

92B99 None of the above, but in this section

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(Århem, Peter) *see* **Matter matters?, 99a:92044**
Dress, Andreas W. M. (*with* Hendy, Mike; Huber, Katharina; Moulton, Vincent L.) On the number of vertices and edges of the Buneman graph. (English summary) **99h:05114a**
— (*with* Huber, Katharina; Moulton, Vincent L.) Some variations on a theme by Buneman. (English summary) **99h:05114b**
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(Liljenström, Hans) *see* **Matter matters?, 99a:92044**
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92Cxx Physiological, cellular and medical topics

92C05 Biophysics

Barcilon, V. (*with* Chen, Duan Pin; Eisenberg, R. S.; Jerome, Joseph W.) Qualitative properties of steady-state Poisson-Nernst-Planck systems: perturbation and simulation study. (English summary) **99e:92008**
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Chernyak, Yuri B. *see* **Feldman, A. B.; et al., 99d:92008**
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Cox, Steven J. A new method for extracting cable parameters from input impedance data. (English summary) **99f:92001**
Dewey, T. Gregory ★ Fractals in molecular biophysics. **99i:92003**
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Eisenberg, R. S. *see* **Barcilon, V.; et al., 99e:92008**
Epstein, Irving R. *see* **Rovinskiĭ, A. B.; et al., 99b:92010**
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Geisel, T. *see* **Ernst, U.; et al., 99b:92008**
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Gomes, M. Gabriela M. Nearest neighbour pulse-coupled oscillators. (English summary) (*see* **99d:00015**)
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Howle, Laurens (*with* Schaeffer, David G.; Shearer, Michael; Zhong, Pei) Lithotripsy: the treatment of kidney stones with shock waves. (English summary) **99d:92009**
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Knight, Thomas F., Jr. (*with* Sussman, Gerald Jay) Cellular gate technology. (English summary) (*see* **99f:68012**)
Kopell, Nancy Networks of neurons as dynamical systems: from geometry to biophysics. (*see* **99i:00017**)
Liu, Shen Quan² *see* **Lu, Qishao, 99f:92002**
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Mandell, Arnold J. (*with* Selz, Karen A.) Is the EEG a strange attractor? Brain stem neuronal discharge patterns and electroencephalographic rhythms. (*see* **99d:00006**)
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Chauvet, Gilbert *see* **Vielle, Bruno, 99e:92012**
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Clements, John C. *see* **Clements, Clyde J.; et al., (99g:92002)**
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Dale, Paul D. *see* **Sneyd, James; et al., 99b:92015**
Demiray, Hilmi Nonlinear wave modulation in a fluid filled thick elastic tube. (English summary) **99f:76139**
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Lendowski, Volker ★ Modellierung und Simulation der Bewegung eines Körpers in reaktiven Zweiphasenflüssigkeiten. (German) [Modeling and simulation of the motion of a body in reactive two-phase fluids] **99a:76154**
Linderman, J. J. *see* **Agresar, G.; et al., 99b:92013**
Lu, Kun *see* **Huang, Guang Yuan; et al.**
Misra, J. C. (*with* Pal, Biswajit; Gupta, A. S.) Hydromagnetic flow of a second-grade fluid in a channel—some applications to physiological systems. (English summary) **99h:76092**
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Pernarowski, Mark Fast and slow subsystems for a continuum model of bursting activity in the pancreatic islet. (English summary) **99h:92011**
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Sneyd, James (*with* Dale, Paul D.; Duffy, Alastair) Traveling waves in buffered systems: applications to calcium waves. (English summary) **99b:92015**
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de Vries, Gerda (*with* Miura, Robert M.) Analysis of a class of models of bursting electrical activity in pancreatic β-cells. (English summary) **99f:92005**
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92C10 Biomechanics [see also 73P20]

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— *see also* **Egerstedt, Magnus, 99m:92005**
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Căpăţînă, Anca (*with* Stavre, Ruxandra) A control problem in biconvective flow. **99d:93036**
Drake, James M. *see* **Stastna, M.; et al., (99m:34001)**
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Martin, Clyde F. (*with* Schovanec, Lawrence) The control and mechanics of human movement systems. (*see* **99k:93006**)
Nordin, Margareta *see* **Özkaya, Nihat**
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Rosso, Riccardo (*with* Virga, Epifanio G.) Exact statics and approximate dynamics of adhering lipid tubules. (English summary) **99d:92010**
Schovanec, Lawrence *see* **Martin, Clyde F., (99k:93006)**
Senba, Takasi Blow-up of radially symmetric solutions to some systems of partial differential equations modelling chemotaxis. (English summary) **99a:35256**
Sivaloganathan, S. *see* **Stastna, M.; et al., (99m:34001)**
(Skalak, Richard) *see* **Özkaya, Nihat**
Stastna, M. (*with* Sivaloganathan, S.; Tenti, G.; Drake, James M.) Brain biomechanics: an exact solution, and asymptotics of slow variations, for the time dependent equations of consolidation theory. (English summary) (*see* **99m:34001**)
Stavre, Ruxandra *see* **Căpăţînă, Anca, 99d:93036**
Taylor, Charles A. (*with* Hughes, Thomas J. R.; Zarins, Christopher K.) Finite element modeling of blood flow in arteries. (English summary) **99d:92014**
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92C15 Developmental biology, pattern formation

Adler, Irving The role of continued fractions in phyllotaxis. **99g:92012**
Benson, Debbie L. (*with* Maini, Philip K.; Sherratt, Jonathan A.) Unravelling the Turing bifurcation using spatially varying diffusion coefficients. (English summary) **99k:92007**
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Cruywagen, Gerhard C. (*with* Maini, Philip K.; Murray, James D.) Biological pattern formation on two-dimensional spatial domains: a nonlinear bifurcation analysis. (English summary) **99m:92006**
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Herrero, Miguel A. (*with* Velázquez, Juan J. L.) A blow-up mechanism for a chemotaxis model. (English summary) **99h:92007**
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Li, Kai-tai *see* **Zhang, Quan De, 99h:92009**
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Markus, Mario (*with* Böhm, Dominik; Schmick, Malte) Simulation of vessel morphogenesis using cellular automata. (English summary) (*see* **99m:92001**)
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Nishiura, Yasumasa (*with* Ueyama, Daishin) A hidden bifurcational structure for self-replicating dynamics. (English summary) **99c:92012**
Nodera, Takashi *see* **Noguchi, Yuuichirou; et al., 99e:92011**
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Unemi, Tatsuo A simple evolvable development system in Euclidean space. (English summary) **99m:92007**
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Bestehorn, Michael (*with* Friedrich, Rudolf) Natural patterns in nonequilibrium systems. (English summary) **99f:82039**
Bookstein, Fred L. ★ Morphometric tools for landmark data. **99d:92003**
Crawford, J. W. *see* **Davidson, F. A.; et al., 99d:92024**
Davidson, F. A. (*with* Sleeman, B. D.; Rayner, A. D. M.; Crawford, J. W.; Ritz, K.) Travelling waves and pattern formation in a model for fungal development. (English summary) **99d:92024**
De Pablo, Arturo (*with* Sánchez, Ariel) Travelling wave behaviour for a porous-Fisher equation. (English summary) **99f:35091**
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Geigant, Edith (*with* Ladizhansky, Karina; Mogilner, Alexander) An integrodifferential model for orientational distributions of F-actin in cells. (English summary) **99j:92005**
Hoffmann, Frank (*with* Kriegel, Klaus; Wenk, Carola) An applied point pattern matching problem: comparing 2D patterns of protein spots. (English summary) (*see* **99k:00039**)
Holmes, Philip J. *see* **Taylor, David A., 99g:92011**
Huang, Ying Sue Periodic solutions to system of globally coupled oscillators. (English summary) **99m:34080**
Kriegel, Klaus *see* **Hoffmann, Frank; et al., (99k:00039)**
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Metcalfe, A. M. (*with* Pedley, T. J.) Bacterial bioconvection: weakly nonlinear theory for pattern selection. (English summary) **99g:76164**
Michod, Richard E. (*with* Roze, Denis) Cooperation and conflict in the evolution of individuality. III. Transitions in the unit of fitness. (English summary) (*see* **99k:92002**)
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Nishiura, Yasumasa Turing patterns · stability · scaling law. (*see* **99f:00026**)
Pedley, T. J. *see* **Metcalfe, A. M., 99g:76164**
Rayner, A. D. M. *see* **Davidson, F. A.; et al., 99d:92024**
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Roze, Denis *see* **Michod, Richard E., (99k:92002)**
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Sleeman, B. D. *see* **Davidson, F. A.; et al., 99d:92024** *and* **Zhao, Xiao-Qiang, 99j:35112**
Taylor, David A. (*with* Holmes, Philip J.) Simple models for excitable and oscillatory neural networks. (English summary) **99g:92011**
Tsujikawa, Tohru Stability of aggregating patterns in a chemotaxis model including growth. (English summary) (*see* **99f:00026**)
Wenk, Carola *see* **Hoffmann, Frank; et al., (99k:00039)**
Zhao, Xiao-Qiang (*with* Sleeman, B. D.) Target patterns and spiral waves in reaction-diffusion systems with limit cycle kinetics and weak diffusion. (English summary) **99j:35112**

92C20 Neural biology

Bose, Amitabha *see* **Terman, David; et al., 99h:92010**
Boyarsky, Abraham (*with* Góra, Paweł; Lioubimov, Vadim) Dynamics on spaces of compact subsets with application to brain modeling. (English summary) **99k:92008**
Constantin, Ioana On a mathematical model in nerve conduction and excitation. (English summary)
Góra, Paweł *see* **Boyarsky, Abraham; et al., 99k:92008**
Hattori, Yoshinori Existence of traveling front solutions of the nerve equation. (English summary) **99c:92013**
Hoppensteadt, Frank C. ★ An introduction to the mathematics of neurons. (English summary) **99a:92005**
Jia, Zhiyuan (*with* Li, Ji Bin) Existence of periodic solution of a neuronic equation. (English summary) **99j:92002**
Kopell, Nancy *see* **Soto-Treviño, C.; et al., 99a:92007** *and* **Terman, David; et al., 99h:92010**
Li, Ji Bin *see* **Jia, Zhiyuan, 99j:92002**
Lioubimov, Vadim *see* **Boyarsky, Abraham; et al., 99k:92008**
Maini, Philip K. *see* **Sánchez Garduño, Faustino, 99a:92006**
Mestl, Thomas *see* **Plahte, Erik; et al., 99j:92003**
Omholt, Stig W. *see* **Plahte, Erik; et al., 99j:92003**
Osipov, V. V. (*with* Ponizovskaya, E. V.) The nature of bursting noises, stochastic resonance and deterministic chaos in excitable neurons. (English summary) **99c:92014**
Penrose, Roger The need for a non-computational extension of quantum action in the brain. (*see* **99a:92044**)
Plahte, Erik (*with* Mestl, Thomas; Omholt, Stig W.) A methodological basis for description and analysis of systems with complex switch-like interactions. (English summary) **99j:92003**
Ponizovskaya, E. V. *see* **Osipov, V. V., 99c:92014**
Sánchez Garduño, Faustino (*with* Maini, Philip K.) Travelling wave phenomena in non-linear diffusion degenerate Nagumo equations. (English summary) **99a:92006**
Soto-Treviño, C. (*with* Kopell, Nancy; Watson, Diana) Parabolic bursting revisited. (English summary) **99a:92007**
Terman, David (*with* Kopell, Nancy; Bose, Amitabha) Dynamics of two mutually coupled slow inhibitory neurons. (English summary) **99h:92010**
Watson, Diana *see* **Soto-Treviño, C.; et al., 99a:92007**

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Cox, Steven J. A new method for extracting cable parameters from input impedance data. (English summary) **99f:92001**
Ei, Shin-Ichiro Interaction of pulses in FitzHugh-Nagumo equations. (English summary) (*see* **99f:00026**)
Giannakopoulos, Fotios (*with* Oster, Oliver) Bifurcation properties of a planar system modelling neural activity. (English summary) **99m:92003**
Ham, Yoon Mee Internal layer oscillations in FitzHugh-Nagumo equation. (English summary) **99k:35197**
Holmes, Philip J. *see* **Taylor, David A., 99g:92011**
Ikeda, Hideo (*with* Rodrigo, Marianito R.) Travelling front waves in parallel coupled nerve fibers. **99d:35166**
Inoue, Junko[2] (*with* Sato, Shunsuke; Ricciardi, Luigi M.) A note on the moments of the first-passage time of the Ornstein-Uhlenbeck process with a reflecting boundary. (English summary) **99c:60184**
Kakiuchi, Nobuhiko (*with* Tchizawa, Kiyoyuki) On a duck solution and delay in the FitzHugh-Nagumo equation. (English summary) **99c:34074**
(Liljenström, Hans) *see* **Matter matters?, 99a:92044**
Naumkin, Pavel I. (*with* Shishmarëv, I. A.) A periodic problem for a system of equations describing the conductivity of nerve pulses. (Russian. Russian summary) **99e:35226**
Nomura, T. *see* **Yoshino, Kohzo; et al., 99h:92005**
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Pakdaman, K. *see* **Yoshino, Kohzo; et al., 99h:92005**
Ricciardi, Luigi M. *see* **Inoue, Junko[2]; et al., 99c:60184**
Rodrigo, Marianito R. *see* **Ikeda, Hideo, 99d:35166**
Sandstede, Björn Stability of N-fronts bifurcating from a twisted heteroclinic loop and an application to the FitzHugh-Nagumo equation. (English summary) **99b:35012**
Sato, Shunsuke *see* **Inoue, Junko[2]; et al., 99c:60184** *and* **Yoshino, Kohzo; et al., 99h:92005**
Sherratt, Jonathan A. Periodic waves in reaction-diffusion models of oscillatory biological systems. (English summary) **99c:92017**
Shishmarëv, I. A. *see* **Naumkin, Pavel I., 99e:35226**
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Taylor, David A. (*with* Holmes, Philip J.) Simple models for excitable and oscillatory neural networks. (English summary) **99g:92011**
Tchizawa, Kiyoyuki *see* **Kakiuchi, Nobuhiko, 99c:34074**
Wu, Jian Hua[3] Global attractor and dimensional estimate for coupled Fitz-Hugh-Nagumo systems. (Chinese. English and Chinese summaries) **99c:35243**
Yoshino, Kohzo (*with* Nomura, T.; Pakdaman, K.; Sato, Shunsuke) Synthetic analysis of periodically stimulated excitable and oscillatory membrane models. (English summary) **99h:92005**

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Workshop:
Matter Matters? On the Material Basis of the Cognitive Activity of Mind ★ Matter matters? **99a:92044**

92C30 Physiology (general)

(Alt, Wolfgang) *see* **Dynamics of cell and tissue motion, 99a:92008**
Baigent, Steve *see* **Iannelli, Pasquale; et al., 99j:92004**
Bhanot, Vanita *see* **Naka, Ken-ichi, (99c:92005)**
Boulanouar, Mohamed Un modèle de Rotenberg avec la loi à mémoire parfaite. (English and French summaries) [A Rotenberg model with perfect memory rule] **99k:92009**
Bressloff, P. C. (*with* Coombes, S.) Travelling waves in a circular array of integrate-and-fire neurons. (English summary) (*see* **99h:00022**)
Chauvet, Gilbert *see* **Vielle, Bruno, 99e:92012**
Coombes, S. *see* **Bressloff, P. C., (99h:00022)**
(Deutsch, Andreas) *see* **Dynamics of cell and tissue motion, 99a:92008**
(Dunn, Graham A.) *see* **Dynamics of cell and tissue motion, 99a:92008**
Fu, Yi Ping (*with* Zhou, Li[1]; Song, Kaitai) Asymptotic behavior of solutions for a periodic transport equation with delay. (English summary) **99d:92012**
Iannelli, Pasquale (*with* Baigent, Steve; Stark, Jaroslav) Inertial manifolds for dynamics of cells coupled by gap junction. (English summary) **99j:92004**
Kato, Nobuyuki (*with* Yamaguchi, Toshiyuki) Nonlinear nonlocal differential equations related to muscle contraction mechanism. **99c:92015**
Kimmel, Marek *see* **Olofsson, Peter**
Li, Jing Wen[2] *see* **Xu, Wang Wen, 99i:92004**
Miura, Robert M. *see* **de Vries, Gerda, 99f:92005**
Naka, Ken-ichi (*with* Bhanot, Vanita) White-noise analysis in retinal physiology. (*see* **99c:92005**)
Olofsson, Peter (*with* Kimmel, Marek) Stochastic models of telomere shortening. (English summary)
Saxena, Vinod P. Fourier series-finite element approach to physiological thermal problems. (English summary) (*see* **99d:00019**)
Song, Kaitai *see* **Fu, Yi Ping; et al., 99d:92012**
Stark, Jaroslav *see* **Iannelli, Pasquale; et al., 99j:92004**
Vielle, Bruno (*with* Chauvet, Gilbert) Delay equation analysis of human respiratory stability. (English summary) **99e:92012**
de Vries, Gerda (*with* Miura, Robert M.) Analysis of a class of models of bursting electrical activity in pancreatic β-cells. (English summary) **99f:92005**
Xu, Wang Wen (*with* Li, Jing Wen[2]) Global attractivity of the model for the survival of red blood cells with several delays. (English summary) **99i:92004**
Yamaguchi, Toshiyuki *see* **Kato, Nobuyuki, 99c:92015**
Zhou, Li[1] *see* **Fu, Yi Ping; et al., 99d:92012**

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Dynamics of cell and tissue motion ★ Dynamics of cell and tissue motion. **99a:92008**
Röttgen ★ Dynamics of cell and tissue motion. **99a:92008**
Workshop:
Cell and Tissue Motion ★ Dynamics of cell and tissue motion. **99a:92008**

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Abakumov, M. V. (*with* Gavrilyuk, K. V.; Esikova, N. B.; Lukshin, An. V.; Mukhin, S. I.; Sosnin, N. V.; Tishkin, V. F.; Favorskiĭ, A. P.) A mathematical model of the hemodynamics of a cardio-vascular system. (Russian. Russian summary) **99b:92017**
Bellettini, Giovanni (*with* Colli Franzone, Piero; Paolini, Maurizio) Convergence of front propagation for anisotropic bistable reaction-diffusion equations. (English summary) **99b:35090**
Boulanouar, Mohamed Un modèle de Rotenberg avec des vitesses de maturité nulles. (English and French summaries) [A Rotenberg model with maturation velocity nil] **99k:92023**
Chaplain, Mark A. J. (*with* Orme, Michelle E.) Travelling waves arising in mathematical models of tumour angiogenesis and tumour invasion. (English summary) **99a:92010**
Clements, Clyde J. (*with* Clements, John C.; Horáček, B. Milan) On the formation of scroll waves in an anisotropic ventricular myocardium. (English summary) (*see* **99g:92002**)
Clements, John C. *see* **Clements, Clyde J.; et al., (99g:92002)**
Colli Franzone, Piero *see* **Bellettini, Giovanni; et al., 99b:35090**
Cook, Christopher A. (*with* Koretz, Jane F.) The geometric theory of accommodation and presbyopia: new results and new insights.
Dale, Paul D. *see* **Sneyd, James; et al., 99b:92015**
Duffy, Alastair *see* **Sneyd, James; et al., 99b:92015**

Echavarría Heras, Héctor (*with* Solana A., Elena) A mathematical model for general radial insertion of LDL receptors near coated pits: formal analysis and applications. (English summary) (*see* **99h:00025**)
Esikova, N. B. *see* **Abakumov, M. V.; et al., 99b:92017**
Favorskiĭ, A. P. *see* **Abakumov, M. V.; et al., 99b:92017**
Gavrilyuk, K. V. *see* **Abakumov, M. V.; et al., 99b:92017**
Gupta, A. S. *see* **Misra, J. C.; et al., 99h:76092**
Hamaya, Yoshihiro Global attractivity in Wazewska-Lasota difference model. (English summary) **99k:39015**
Handelman, George H. (*with* Koretz, Jane F.) An analytic model of human visual accommodation.
Horáček, B. Milan *see* **Clements, Clyde J.; et al., (99g:92002)**
Kipnis, C. (*with* Saada, E.) Un lien entre réseaux de neurones et systèmes de particules: un modèle de rétinotopie. (French summary) [A connection between neural networks and particle systems: a model of retinotopy] **99h:92013**
Koretz, Jane F. *see* **Cook, Christopher A.** *and* **Handelman, George H.**
Lukshin, An. V. *see* **Abakumov, M. V.; et al., 99b:92017**
Miller, Steven D. A stochastic method for Brownian-like optical transport calculations in anisotropic biosuspensions and blood. (English summary) **99g:92010**
Misra, J. C. (*with* Pal, Biswajit; Gupta, A. S.) Hydromagnetic flow of a second-grade fluid in a channel—some applications to physiological systems. (English summary) **99h:76092**
Mukhin, S. I. *see* **Abakumov, M. V.; et al., 99b:92017**
Orme, Michelle E. *see* **Chaplain, Mark A. J., 99a:92010**
Pal, Biswajit *see* **Misra, J. C.; et al., 99h:76092**
Paolini, Maurizio *see* **Bellettini, Giovanni; et al., 99b:35090**
Pernarowski, Mark Fast and slow subsystems for a continuum model of bursting activity in the pancreatic islet. (English summary) **99h:92011**
Saada, E. *see* **Kipnis, C., 99h:92013**
Sneyd, James (*with* Dale, Paul D.; Duffy, Alastair) Traveling waves in buffered systems: applications to calcium waves. (English summary) **99b:92015**
Solana A., Elena *see* **Echavarría Heras, Héctor, (99h:00025)**
Sosnin, N. V. *see* **Abakumov, M. V.; et al., 99b:92017**
Svyatukha, V. A. (*with* Tsitsiashvili, G. Sh.) Decomposition effects in the method of cosinor analysis. (Russian. English and Russian summaries)
Tishkin, V. F. *see* **Abakumov, M. V.; et al., 99b:92017**
Tsitsiashvili, G. Sh. *see* **Svyatukha, V. A.**
Wang, Quan Yi Stability of periodic solutions to a hematopoiesis model. (Chinese. English and Chinese summaries) **99m:34169**

92C35 Physiological flow [see also 76Z05]

Chakravarty, Santabrata (*with* Sannigrahi, Ashis Kr.) An analytical estimate of the flow-field in a porous stenotic artery subject to body acceleration. (English summary) **99d:92013**
Elbarbary, E. M. E. *see* **Elshehawey, E. F.; et al.**
Elshahed, Mostafa *see* **Elshehawey, E. F.; et al.**
Elshehawey, E. F. (*with* Elbarbary, E. M. E.; Elshahed, Mostafa) Blood flow through a porous medium under periodic body acceleration. (English summary)
Gavrilyuk, K. V. (*with* Lukshin, An. V.) On the method of point markers in problems of hemodynamics. (Russian. Russian summary) **99c:92016**
Hughes, Thomas J. R. *see* **Taylor, Charles A.; et al., 99d:92014**
Kottler, N. E. (*with* Tran, H. T.; Wessell, D. E.) A complete steady state model of solute and water transport in the kidney. (English summary) **99m:92008**
Lukshin, An. V. *see* **Gavrilyuk, K. V., 99c:92016**
Sannigrahi, Ashis Kr. *see* **Chakravarty, Santabrata, 99d:92013**
Taylor, Charles A. (*with* Hughes, Thomas J. R.; Zarins, Christopher K.) Finite element modeling of blood flow in arteries. (English summary) **99d:92014**
Tran, H. T. *see* **Kottler, N. E.; et al., 99m:92008**
Wessell, D. E. *see* **Kottler, N. E.; et al., 99m:92008**
Zarins, Christopher K. *see* **Taylor, Charles A.; et al., 99d:92014**

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(Alt, Wolfgang) *see* **Dynamics of cell and tissue motion, 99a:92008**
Arthurs, Kayne M. (*with* Moore, Leon C.; Peskin, Charles S.; Pitman, E. Bruce; Layton, H. E.) Modeling arteriolar flow and mass transport using the immersed boundary method. (English summary)
(Deutsch, Andreas) *see* **Dynamics of cell and tissue motion, 99a:92008**
(Dunn, Graham A.) *see* **Dynamics of cell and tissue motion, 99a:92008**
Layton, H. E. *see* **Arthurs, Kayne M.; et al.**
Misra, J. C. (*with* Pal, Biswajit) A mathematical model for the study of the pulsatile flow of blood under an externally imposed body acceleration. (English summary)
Moore, Leon C. *see* **Arthurs, Kayne M.; et al.**
Pal, Biswajit *see* **Misra, J. C.**
Peskin, Charles S. *see* **Arthurs, Kayne M.; et al.**
Pitman, E. Bruce *see* **Arthurs, Kayne M.; et al.**
Prema, K. *see* **Usha, R.**
Topunov, Michael V. Problem of regulation of the cardiovascular system as a bilinear control problem. (English summary) **99h:49053**
Tsujikawa, Tohru Stability of aggregating patterns in a chemotaxis model including growth. (English summary) (*see* **99f:00026**)
Usha, R. (*with* Prema, K.) Pulsatile flow of particle-fluid suspension model of blood under periodic body acceleration. (English summary)

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Dynamics of cell and tissue motion ★ Dynamics of cell and tissue motion. **99a:92008**
Röttgen ★ Dynamics of cell and tissue motion. **99a:92008**
Workshop:
Cell and Tissue Motion ★ Dynamics of cell and tissue motion. **99a:92008**

92C40 Biochemistry, molecular biology

Acerenza, Luis Periodic behavior and chaos in biochemical systems. (Spanish) (*see* **99m:58004**)
Agresar, G. (*with* Linderman, J. J.; Tryggvason, G.; Powell, K. G.) An adaptive, Cartesian, front-tracking method for the motion, deformation and adhesion of circulating cells. (English summary) **99b:92013**
Bayram, Mustafa Application of computer algebra techniques to affinity binding equations. (English summary) **99b:92014**
van den Berg, Hugo A. (*with* Kiselëv, Yu. N.; Kooijman, S. A. L. M.; Orlov, M. V.) Optimal allocation between nutrient uptake and growth in a microbial trichome. (English summary) **99f:92006**
Dale, Paul D. *see* **Sneyd, James; et al., 99b:92015**
Duffy, Alastair *see* **Sneyd, James; et al., 99b:92015**
Edelsbrunner, Herbert (*with* Facello, Michael; Liang, Jie) On the definition and the construction of pockets in macromolecules. (English summary) **99k:92010**
Facello, Michael *see* **Edelsbrunner, Herbert; et al., 99k:92010**
Forst, Christian V. Molecular evolutionary dynamics. (English summary) (*see* **99d:00025**)
Geigant, Edith (*with* Ladizhansky, Karina; Mogilner, Alexander) An integrodifferential model for orientational distributions of F-actin in cells. (English summary) **99j:92005**
He, Bingjin *see* **Zhang, Zhen Yue; et al., 99a:92009**
Kiselëv, Yu. N. *see* **van den Berg, Hugo A.; et al., 99f:92006**
Kooijman, S. A. L. M. *see* **van den Berg, Hugo A.; et al., 99f:92006**
Ladizhansky, Karina *see* **Geigant, Edith; et al., 99j:92005**
Li, Lin[1] (*with* Tang, Xin Yi) Qualitative analysis of a class of biochemical reaction models. (Chinese. English and Chinese summaries) **99i:92005**
Liang, Jie *see* **Edelsbrunner, Herbert; et al., 99k:92010**
Liang, Xian Ting Local universal unfolding and Hopf bifurcation of equations for energy and information transport by protein molecules. (Chinese. English and Chinese summaries) **99e:92013**
Linderman, J. J. *see* **Agresar, G.; et al., 99b:92013**
Mahaffy, Joseph M. (*with* Savev, Emil Simeonov) Stability analysis for a mathematical model of the lac operon. (English summary) **99m:92009**
Miller, Webb Colby *see* **Zhang, Zhen Yue; et al., 99a:92009**
Mogilner, Alexander *see* **Geigant, Edith; et al., 99j:92005**
Orlov, M. V. *see* **van den Berg, Hugo A.; et al., 99f:92006**
Pernarowski, Mark Fast and slow subsystems for a continuum model of bursting activity in the pancreatic islet. (English summary) **99h:92011**
Powell, K. G. *see* **Agresar, G.; et al., 99b:92013**
Savev, Emil Simeonov *see* **Mahaffy, Joseph M., 99m:92009**
Sherratt, Jonathan A. Periodic waves in reaction-diffusion models of oscillatory biological systems. (English summary) **99c:92017**
Sneyd, James (*with* Dale, Paul D.; Duffy, Alastair) Traveling waves in buffered systems: applications to calcium waves. (English summary) **99b:92015**
Sun, Feng Zhu (*with* Waterman, Michael S.) Whole genome amplification and branching processes. (English summary) **99e:92014**
Tang, Xin Yi *see* **Li, Lin[1], 99i:92005**
Tryggvason, G. *see* **Agresar, G.; et al., 99b:92013**
Waterman, Michael S. *see* **Sun, Feng Zhu, 99e:92014**
Xu, Rui[2] (*with* Yang, Ping Hua) The limit cycles of a class of first-order saturated reaction systems. (Chinese. English and Chinese summaries) **99h:92012**
Yang, Ping Hua *see* **Xu, Rui[2], 99h:92012**
Zhang, Zhen Yue (*with* He, Bingjin; Miller, Webb Colby) Local multiple alignment via subgraph enumeration. (English summary) **99a:92009**

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Akutsu, Tatsuya (*with* Yagiura, Mutsunori) On the complexity of deriving score functions from examples for problems in molecular biology. (English summary) **99m:68073**
Apostolico, Alberto (*with* Giancarlo, Raffaele) Sequence alignment in molecular biology. (English summary) **99m:92018**
Arino, Ovide (*with* Sánchez, Eva; Webb, G. F.) Polynomial growth dynamics of telomere loss in a heterogeneous cell population. (English summary) **99c:92032**
Cancès, Eric (*with* Le Bris, Claude; Mennucci, Benedetta; Tomasi, Jacopo) Integral equation methods for molecular scale calculations in the liquid phase. (English summary) **99j:92030**
Dey, Tamal K. (*with* Guha, Sumanta) Computing homology groups of simplicial complexes in $\mathbf{R}^3$. (English summary) **99c:52021**
Enomoto, Yoshihisa (*with* Sekimura, Toshio) On the shape problems of vesicles of lipid bilayers. (English summary) **99e:92009**
Fernández, Ariel (*with* Niel, Blanca) Folding pathways as brachistochrones. (English summary) **99b:92031**
Floudas, Christodoulos A. (*with* Klepeis, J. L.; Pardalos, Panos M.) Global optimization approaches in protein folding and peptide docking. (English summary) **99m:92020**
Georgiev, Svetlin Georgiev *see* **Tsvetkov, Dimiter Petkov, 99f:92007**
Giancarlo, Raffaele *see* **Apostolico, Alberto, 99m:92018**
Guha, Sumanta *see* **Dey, Tamal K., 99c:52021**
Gusfield, Dan ★ Algorithms on strings, trees, and sequences. (English summary) **99b:68095**
Hammer, Jacob On the corrective control of sequential machines. (English summary)
an der Heiden, Uwe On the dynamics of nonlinear feedback loops in cell membrane, neural and sensory systems. (English summary) (*see* **99g:92002**)
— *see also* Nauroschat, Jürgen, 99c:92018
Hu, Bao Cun *see* **Yang, Ping Hua; et al., 99k:92051**
Kiselëv, Yu. N. (*with* Orlov, M. V.) Optimal control problems with singular regimes for a model in microbiology. (Russian. Russian summary) **99g:49036**
Klepeis, J. L. *see* **Floudas, Christodoulos A.; et al., 99m:92020**
Laucia, Giuseppe (*with* Perlin, Mark) Genotyping of pooled microsatellite markers by combinatorial optimization techniques. (English summary) **99h:92018**
Le Bris, Claude *see* **Cancès, Eric; et al., 99j:92030**
Lendowski, Volker ★ Modellierung und Simulation der Bewegung eines Körpers in reaktiven Zweiphasenflüssigkeiten. (German) [Modeling and simulation of the motion

of a body in reactive two-phase fluids] **99a:76154**
Mennucci, Benedetta *see* **Cancès, Eric; et al., 99j:92030**
Nauroschat, Jürgen (*with* an der Heiden, Uwe) A theoretical approach to G-protein modulation of cellular responsiveness. (English summary) **99c:92018**
Niel, Blanca *see* **Fernández, Ariel, 99b:92031**
Orlov, M. V. *see* **Kiselëv, Yu. N., 99g:49036**
Pardalos, Panos M. *see* **Floudas, Christodoulos A.; et al., 99m:92020**
Perlin, Mark *see* **Lancia, Giuseppe, 99h:92018**
Pitts, Susan M. A functional approach to approximations for the observed open times in single ion channel models. (English summary) **99b:60150**
Rossa, Bernd Quiescence as an explanation for asynchronous exponential growth in a size structured cell population of exponentially growing cells. I. (English summary) **99h:92033**
Rosso, Riccardo (*with* Virga, Epifanio G.) Exact statics and approximate dynamics of adhering lipid tubules. (English summary) **99d:92010**
Sánchez, Eva *see* **Arino, Ovide; et al., 99c:92032**
Sekimura, Toshio *see* **Enomoto, Yoshihisa, 99e:92009**
Stadler, Peter F. Landscapes and their correlation functions. (English summary) **99a:92021**
Szili, László (*with* Tóth, János) On the origin of Turing instability. (English summary) **99d:92011**
Tomasi, Jacopo *see* **Cancès, Eric; et al., 99j:92030**
Tóth, János *see* **Szili, László, 99d:92011**
Tsvetkov, Dimiter Petkov (*with* Georgiev, Svetlin Georgiev) A time-dependent biochemical system. (English summary) **99f:92007**
Virga, Epifanio G. *see* **Rosso, Riccardo, 99d:92010**
Webb, G. F. *see* **Arino, Ovide; et al., 99c:92032**
Will, Hans-Martin Fast and efficient computation of additively weighted Voronoi cells for applications in molecular biology. (English summary) **99k:68200**
Xu, Rui[2] *see* **Yang, Ping Hua; et al., 99k:92051**
Yagiura, Mutsunori *see* **Akutsu, Tatsuya, 99m:68073**
Yang, Ping Hua (*with* Xu, Rui[2]; Hu, Bao Cun) Qualitative analysis of a class of biochemical reaction systems. (Chinese. English and Chinese summaries) **99k:92051**
Yang, Qi Gui A Hopf bifurcation solution for a biochemical reaction system model. (Chinese. English and Chinese summaries) **99m:34083**

92C45 Kinetics in biochemical problems (pharmacokinetics, enzyme kinetics, etc.) [see also 80A30]

Bayram, Mustafa Application of computer algebra techniques to enzyme kinetics. (English summary) **99b:92016**
Fernández-Sánchez, F. *see* **Pizarro, Luis; et al., (99g:00036)**
Freire Macías, Emilio *see* **Pizarro, Luis; et al., (99g:00036)**
Georgiev, Svetlin Georgiev *see* **Tsvetkov, Dimiter Petkov, 99f:92007**
an der Heiden, Uwe *see* **Nauroschat, Jürgen, 99c:92018**
Nauroschat, Jürgen (*with* an der Heiden, Uwe) A theoretical approach to G-protein modulation of cellular responsiveness. (English summary) **99c:92018**
Pizarro, Luis (*with* Freire Macías, Emilio; Rodríguez-Luis, A. J.; Fernández-Sánchez, F.) Bifurcations of codimension two in an enzyme model. (Spanish. English summary) (*see* **99g:00036**)
Rodríguez-Luis, A. J. *see* **Pizarro, Luis; et al., (99g:00036)**
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Markov, Svetoslav M. (*with* Akyildiz, Y.) Curve fitting and interpolation of biological data under uncertainties. (English summary) **99e:65010**
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92C50 Medical applications (general)

Abakumov, M. V. (*with* Gavrilyuk, K. V.; Esikova, N. B.; Lukshin, An. V.; Mukhin, S. I.; Sosnin, N. V.; Tishkin, V. F.; Favorskiĭ, A. P.) A mathematical model of the hemodynamics of a cardio-vascular system. (Russian. Russian summary) **99b:92017**
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Colton, David L. (*with* Monk, P. B.) A linear sampling method for the detection of leukemia using microwaves. (English summary) **99b:92019**
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Mukhin, S. I. *see* **Abakumov, M. V.; et al., 99b:92017**
Nelson, Patrick W. *see* **Perelson, Alan S.**
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Fogel, David B. (*with* Wasson, Eugene C.; Boughton, Edward M.; Porto, Vincent W.; Shively, Jamen W.) Erratum: "Initial results of training neural networks to detect breast cancer using evolutionary programming" [Control Cybernet. **26** (1997), no. 3, 497–510].
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Nakamura, Gen[1] *see* **Shirota, Kenji; et al., (99i:00028)**
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Onishi, Kazuei *see* **Shirota, Kenji; et al., (99i:00028)**
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Wasson, Eugene C. *see* **Fogel, David B.; et al.** *and* **(99b:90008)**
Weir, B. S. *see* **Kaplan, N. L., (99h:92016)**
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92C55 Tomography [see also 44A12, 65R10]

Anikonov, D. S. (*with* Nazarov, V. G.; Prokhorov, I. V.) Visible and invisible media in tomography. (Russian) **99e:92016**
Böhm, Josef *see* **Kárný, Miroslav; et al., 99c:92024**
(Börgers, Christoph) *see* **Computational radiology and imaging, 99m:92012**
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Clements, John C. An optimal control theory approach to the inverse problem of electrocardiography. (English summary) (*see* **99g:92002**)
Defrise, Michel *see* **Clackdoyle, Rolf; et al., (99m:92012)**
Derevtsov, E. Yu. Ghost distributions in the cone-beam tomography. (English summary) **99c:92023**
Desbat, L. (*with* Ramm, Alexander G.) Finding small objects from tomographic data. (English summary) **99a:92012**
Dolin, L. S. The theory of optical coherence tomography. (Russian. English and Russian summaries) **99g:92016**
Herman, Gabor T. *see* **Maritz, Milton F.; et al., 99i:92009**
Kárný, Miroslav (*with* Šámal, Martin; Böhm, Josef) Rotation to physiological factors revised. (English summary) **99c:92024**
Khalfin, L. A. (*with* Klebanov, Lev B.) On some problems of computerized tomography. (English summary) **99m:92010**
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Maritz, Milton F. (*with* Herman, Gabor T.; Yee, Conway) Recovery of the absorption coefficient from diffused reflected light using a discrete diffusive model. (English summary) **99i:92009**
Nakamura, Gen[1] *see* **Shirota, Kenji; et al., (99i:00028)**
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Nazarov, V. G. *see* **Anikonov, D. S.; et al., 99e:92016**
Nguyen, Dinh Thuc Some applications of tomography and Radon's transform. (English summary) **99m:92011**
Noo, Frédéric *see* **Clackdoyle, Rolf; et al., (99m:92012)**
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Pardalos, Panos M. (*with* Liu, Xin[3]) A tabu based pattern search method for the distance geometry problem. (English summary) (*see* **99c:90004**)
Pike, G. B. Multidimensional Fourier transforms in magnetic resonance imaging. (*see* **99c:94011**)
Popov, A. A. Methods of solving certain two-dimensional problems of Doppler tomography. (English summary) **99i:92010**
Prokhorov, I. V. *see* **Anikonov, D. S.; et al., 99e:92016**
Quinto, Eric Todd Exterior and limited-angle tomography in non-destructive evaluation. (English summary) **99g:92017**
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Schempp, Walter Johannes Coherent wavelet modelling of high resolution radar imaging and clinical magnetic resonance tomography. (English summary) (*see* **99g:00043**)
— Quantum holography and magnetic resonance tomography: an ensemble quantum computing approach. (English summary) **99k:92014**
Shirota, Kenji (*with* Nakamura, Gen[1]; Onishi, Kazuei) Numerical calculation of electrocardiogram inverse problems connected with impedance identification. (Japanese) (*see* **99i:00028**)
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Arbuzov, È. V. (*with* Bukhgeĭm, A. L.; Kazantsev, S. G.) Two-dimensional problems in tomography, and the theory of A-analytic functions. (Russian. Russian summary) **99m:44003**
Banks, H. T. (*with* Lin, Tao[1]) Determining the structure of a biological medium using acousto-optic probes. (English summary) **99k:78025**
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Bertero, Mario (*with* Boccacci, Patrizia) ★ Introduction to inverse problems in imaging. (English summary) **99k:78027**
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Derevtsov, E. Yu. (*with* Kleshchev, A. G.; Sharafutdinov, Vladimir A.) Numerical solution of the emission 2D-tomography problem for a medium with absorption and refraction. (English summary) **99m:65030**
Dobson, David C. Recovery of blocky images in electrical impedance tomography. **99d:94005**
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Evans, Robert *see* **Gureev, T. E., 99i:44002**
Faridani, Adel Sampling in parallel-beam tomography. (English summary) **99j:94006**
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Grünbaum, F. Alberto (*with* Patch, S. K.) How many parameters can one solve for in diffuse tomography? (English summary) **99a:65188**
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Hofmann, Bernd Approximation of the inverse electrical impedance tomography problem by an inverse transmission problem. (English summary) **99j:78021**
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Klimenko, O. A. The emission tomography problem in a disk. (Russian. English and Russian summaries) **99b:44003**
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Lissianoi, Sergei (*with* Ponomarev, Igor) On the inversion of the geodesic Radon transform on the hyperbolic plane. (English summary) **99c:53082**
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92C60 Medical epidemiology

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Milota, Jaroslav Persistence in an epidemiological model. (English summary) (*see* **99g:92002**)
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92C99 None of the above, but in this section

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92Dxx Genetics and population dynamics

92D10 Genetics {For genetic algebras, see 17D92.}

Akutsu, Tatsuya (*with* Kuhara, Satoru; Maruyama, Osamu; Miyano, Satoru) Identification of gene regulatory networks by strategic gene disruptions and gene overexpressions. (English summary) (*see* **99d:68011**)
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Lange, Kenneth ★ Mathematical and statistical methods for genetic analysis. (English summary) **99k:92015**
— (*with* Zhao, Hongyu; Speed, Terence P.) The Poisson-skip model of crossing-over. (English summary) **99b:92024**
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Batzoglou, Serafim (*with* Berger, Bonnie; Kleitman, Daniel J.; Lander, Eric S.; Pachter, Lior) Recent developments in computational gene recognition. (English summary) **99g:92022**
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Dawson, Donald A. (*with* Feng, Shui) Large deviations for the Fleming-Viot process with neutral mutation and selection. (English summary) **99h:60050**
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— *see also* **Dawson, Donald A., 99h:60050**
Hannenhalli, Sridhar (*with* Pevzner, Pavel A.) Transforming men into mice (polynomial algorithm for genomic distance problem). (English summary) (*see* **99a:68010**)
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92D15 Problems related to evolution

Antonelli, Peter L. A Finsler geometric model of evolution by symbiosis. (English summary) **99h:92017**
Atteson, Kevin The performance of neighbor-joining algorithms of phylogeny reconstruction. (English summary) **99b:92026**
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Berry, Vincent (*with* Gascuel, Olivier) Inferring evolutionary trees with strong combinatorial evidence. (English summary) **99f:92011**
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Ray, Thomas S. A computational approach to evolutionary biology. (*see* **99c:92005**)
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Sandholm, William H. Simple and clever decision rules for a model of evolution. (English summary) **99i:92011**
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Sawyer, Stanley A. Estimating selection and mutation rates from a random field model for polymorphic sites. (English summary) (*see* **99h:92016**)
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Vingron, Martin Sequence alignment and phylogeny construction. (English summary) **99m:92017**
— *see also* **Eulenstein, O., 99k:92016**
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Beder, Jay H. (*with* Gomulkiewicz, Richard) Computing the selection gradient and evolutionary response of an infinite-dimensional trait. (English summary) **99f:92009**

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Moulton, Vincent L. (*with* Steel, Michael) Retractions of finite distance functions onto tree metrics. (English summary) **99k:05060**

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Mathematical and computational biology ★ Mathematical and computational biology. **99k:92002**

Mathematical support for molecular biology ★ Mathematical support for molecular biology. **99k:92003**

Minneapolis, MN ★ Progress in population genetics and human evolution. **99h:92016**

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Special Year:

Mathematical Support for Molecular Biology ★ Mathematical support for molecular biology. **99k:92003**

Workshop:

Mathematical and Computational Biology ★ Mathematical and computational biology. **99k:92002**

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92D20 Protein sequences, DNA sequences

Abundo, Mario (*with* Accardi, Luigi; Stella, L.; Rosato, N.) A stochastic model for the cooperative relaxation of proteins, based on a hierarchy of interactions between amino acidic residues. (English summary) **99g:92020**

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Arvestad, Lars Aligning coding DNA in the presence of frame-shift errors. (English summary) **99b:92029**

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92E20 Classical flows, reactions, etc. [see also 80A30, 80A32]

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Cancès, Eric (*with* Le Bris, Claude; Mennucci, Benedetta; Tomasi, Jacopo) Integral equation methods for molecular scale calculations in the liquid phase. (English summary) **99j:92030**
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92E99 None of the above, but in this section

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92F05 Other natural sciences

92Gxx Social and behavioral sciences: methodology {For statistics, see 62–XX.}

92G05 Measurement theory

Boucher, Thomas O. *see* **Gogus, Ozerk, 99b:92066**
Candeal-Haro, Juan Carlos (*with* Induráin Eraso, Esteban; Olóriz Urriza, Esteban) Weak extensive measurement without translation-invariance axioms. (English summary) **99i:92035**
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Vogt, Frank[2] On the order-completion of additive conjoint structures. (English summary) **99e:92039**

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(Ernst, Catherine) *see* **Hölder, Otto, 99i:00003**
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(Michell, Joel) *see* **Hölder, Otto, 99i:00003**

92G15 One- and multidimensional scaling

Suck, Reinhard Probabilistic biclassification and random variable representations. (English summary) **99c:92065**

92G30 Clustering [see also 62H30]

Dress, Andreas W. M. Towards a theory of holistic clustering. (English summary) **99g:92046**

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92Hxx Mathematical sociology (including anthropology)

92H10 Models of societies, social and urban evolution

Chen, Baizhu (*with* Feng, Yi) Economic development and the transition to democracy: a formal model. (English summary) **99k:92052**
Feng, Yi *see* **Chen, Baizhu, 99k:92052**
Gevers, Louis (*with* Michel, Philippe Gaston) Economic dynasties with intermissions. (English summary) **99g:92047**
Levis, Alexander H. *see* **Perdu, Didier M., 99b:92067**
Mayntz, Renate Chaos in society: reflections on the impact of chaos theory on sociology. (*see* **99d:00006**)
Michel, Philippe Gaston *see* **Gevers, Louis, 99g:92047**
Moscarini, Giuseppe (*with* Ottaviani, Marco; Smith, Lones) Social learning in a changing world. (English summary) **99e:92040**
Ottaviani, Marco *see* **Moscarini, Giuseppe; et al., 99e:92040**
Perdu, Didier M. (*with* Levis, Alexander H.) Adaptation as a morphing process: a methodology for the design and evaluation of adaptive organizational structures. (English summary) **99b:92067**
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Coles, M. G. *see* **Burdett, Kenneth**
Fitoussi, David (*with* Tennenholtz, Moshe) Minimal social laws. (English summary) (*see* **99f:68005**)
Huang, Zhisheng *see* **Masuch, Michael, 99h:90060**
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Tennenholtz, Moshe *see* **Fitoussi, David, (99f:68005)**

92H20 Mathematical geography and demography

Eshima, Nobuoki *see* **Tabata, Minoru; et al., 99i:92036**
Hiroyama, Takashi *see* **Tabata, Minoru; et al., 99i:92036**
Tabata, Minoru (*with* Eshima, Nobuoki; Takagi, Ichiro; Hiroyama, Takashi) The Cauchy problem for the system of equations describing migration motivated by regional economic disparity. (English summary) **99i:92036**
Takagi, Ichiro *see* **Tabata, Minoru; et al., 99i:92036**

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Pick, J. B. Natural and spectral convergence measures of Leslie matrices: additive norms and the imprimitive cases. (English summary) **99b:92047**

92H25 Spatial models [see also 90A25]

Items with secondary classifications in 92H25

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Renshaw, Eric (*with* Dai, Yonglong) Regularity and reversibility results for birth-death-migration processes. (English summary) **99e:60163**

92H30 Social networks

Items with secondary classifications in 92H30

Boros, Endre (*with* Gurvich, V. A.; Vasin, A. A.) Stable families of coalitions and normal hypergraphs. (English summary) **99b:90170**
Gurvich, V. A. *see* **Boros, Endre; et al., 99b:90170**
Vasin, A. A. *see* **Boros, Endre; et al., 99b:90170**
Xue, Licun Coalitional stability under perfect foresight. (English summary) **99e:90120**

92H35 Manpower systems [see also 90A50, 90B70]

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92H99 None of the above, but in this section

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Batabyal, Amitrajeet A. Aspects of arranged marriages and the theory of Markov decision processes. (English summary)

92Jxx Mathematical psychology

92J10 Cognitive psychology

Feldman, Jacob[2] The structure of perceptual categories. (English summary) **99c:92066**
Green, H. S. (*with* Triffet, T.) ★ Sources of consciousness. **99b:92068**
— *see also* **Triffet, T.**
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Rinaldi, Sergio Laura and Petrarch: an intriguing case of cyclical love dynamics. (English summary) **99c:92067**
Samuels, Richard Evolutionary psychology and the massive modularity hypothesis. (English summary)
Triffet, T. (*with* Green, H. S.) Modelling the brain processes of conscious states. (English summary)
— *see also* **Green, H. S., 99b:92068**
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Pavia ★ The complex matters of the mind. **99e:92041**

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Fortner, Brand (*with* Meyer, Theodore E.) ★ Number by colors. (English summary) **99a:92043**
Giblin, Peter J. Apparent contours: an outline. (English summary) **99m:53010**
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Wang, Zhenyong *see* **Zhang, Qinglin; et al.**
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92J30 Psychophysics and psychophysiology; perception

Colonius, Hans (*with* Ellermeier, Wolfgang) Distribution inequalities for parallel models of reaction time with an application to auditory profile analysis. (English summary) **99b:92069**
Dayan, Peter Recognition in hierarchical models. (English summary) **99h:92045**
Ellermeier, Wolfgang *see* **Colonius, Hans, 99b:92069**
Hameroff, Stuart Funda-mental geometry: the Penrose-Hameroff "Orch OR" model of consciousness. (*see* **99b:00015**)
Indow, Tarow Hyperbolic representation of global structure of visual space. (English summary) **99d:92056**
Koenderink, Jan J. Pictorial relief. (English summary) (*see* **99a:00034**)
Scurfield, Brian K. Generalization of the theory of signal detectability to n-event m-dimensional forced-choice tasks. (English summary) **99h:92046**
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Egerstedt, Magnus (*with* Martin, Clyde F.) A control theoretic model of the muscular actions in human head-eye coordination. (English summary) **99m:92005**
Green, H. S. (*with* Triffet, T.) ★ Sources of consciousness. **99b:92068**
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Martin, Clyde F. (*with* Schovanec, Lawrence) Muscle mechanics and dynamics of ocular motion. (English summary) **99e:92010**
— *see also* **Egerstedt, Magnus, 99m:92005**
McKee, Sean *see* **Merino, Sandro; et al., 99b:35095**
Merino, Sandro (*with* Grinfeld, Michael; McKee, Sean) A degenerate reaction diffusion system modelling an optical biosensor. (English summary) **99b:35095**
Meyers, Ronald E. *see* **Zak, Michail; et al., 99c:92010**
Naka, Ken-ichi (*with* Bhanot, Vanita) White-noise analysis in retinal physiology. (*see* **99c:92005**)
(Orsucci, Franco) *see* **Complex matters of the mind, 99e:92041**
Poslavskiĭ, S. A. (*with* Shabanov-Kushnarenko, S. Yu.; Shabanov-Kushnarenko, Yu. P.) Comparative identification of finite-dimensional linear processes. (Russian. English summary) **99m:93024**
Schovanec, Lawrence *see* **Martin, Clyde F., 99e:92010**
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Chaos, Fractals and Models ★ The complex matters of the mind. **99e:92041**
Lecture Notes in Physics. New Series m: Monographs *see* **Zak, Michail; et al., 99c:92010**
Pavia ★ The complex matters of the mind. **99e:92041**

92J40 Memory and learning [see also 68T05]

Hiraoka, Kazuyuki (*with* Yoshizawa, Shuji) The optimal solution of the lob-pass problem with known reaction curves. (Japanese. English and Japanese summaries)
Ishii, Shin (*with* Sato, Masa-aki) Associative memory based on parametrically coupled chaotic elements. (English summary) **99g:92048**
Sato, Masa-aki *see* **Ishii, Shin, 99g:92048**
Šlechta, Jiří On a quantum-statistical theory of pair interaction between memory traces in the brain. (English summary)
Świerczkowski, S. A model of following. (English summary) **99i:92039**
Yoshizawa, Shuji *see* **Hiraoka, Kazuyuki**

Items with secondary classifications in 92J40

Berwick, Robert C. *see* **Niyogi, Partha**
Niyogi, Partha (*with* Berwick, Robert C.) A dynamical systems model for language change. (English summary)
Nyarko, Yaw Bayesian learning and convergence to Nash equilibria without common priors. (English summary) **99g:90171**
(Orsucci, Franco) *see* **Complex matters of the mind, 99e:92041**
Wachman, M. A model of thought processes. (English summary) **99i:92038**

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Complex matters of the mind ★ The complex matters of the mind. **99e:92041**
Conference:
Chaos, Fractals and Models ★ The complex matters of the mind. **99e:92041**
Pavia ★ The complex matters of the mind. **99e:92041**

92J45 Measurement and performance

Pham, T. D. (*with* Yan, Hong) A quasi-linear fuzzy measure of multi-attributes. (English summary) **99c:92068**
Yan, Hong *see* **Pham, T. D., 99c:92068**

Items with secondary classifications in 92J45

Aczél, János What to do until (and when) the functional equationist arrives. (English summary) **99c:39027**
Feng, Jun Wen (*with* Yu, Po Lung) Minimum spanning table and optimal expansion of competence set. (English summary) **99k:90186**
Hiraoka, Kazuyuki (*with* Yoshizawa, Shuji) The optimal solution of the lob-pass problem with known reaction curves. (Japanese. English and Japanese summaries)
Regenwetter, Michel Probabilistic preferences and topset voting. (English summary) **99a:90071**
Stüven, Norbert Mathematisches Problemlösen: geschlechtsabhängig? (German summary) [Mathematical problem solving: gender-dependent?] **99g:01047**
Suck, Reinhard Ordering orders. (English summary) **99m:92057**
Yoshizawa, Shuji *see* **Hiraoka, Kazuyuki**
Yu, Po Lung *see* **Feng, Jun Wen, 99k:90186**

92J99 None of the above, but in this section

(Åhrem, Peter) *see* **Matter matters?, 99a:92044**
Fortner, Brand (*with* Meyer, Theodore E.) ★ Number by colors. (English summary) **99a:92043**
(Liljenström, Hans) *see* **Matter matters?, 99a:92044**
Meyer, Theodore E. *see* **Fortner, Brand, 99a:92043**
Rinaldi, Sergio Love dynamics: the case of linear couples. (English summary) **99d:92057**
(Svedin, Uno) *see* **Matter matters?, 99a:92044**
Železnikar, Anton P. Informational graphs. (English summary) **99c:92069**

Items listed otherwise than by author

Abisko ★ Matter matters? **99a:92044**
Matter matters? ★ Matter matters? **99a:92044**
Workshop:
Matter Matters? On the Material Basis of the Cognitive Activity of Mind ★ Matter matters? **99a:92044**

92Kxx Other social and behavioral sciences (mathematical treatment)

92K10 History, political science

Campbell, David K. (*with* Mayer-Kress, Gottfried) Chaos and politics: applications of nonlinear dynamics to socio-political issues. (English summary) (*see* **99d:00006**)
Gerber, Anke (*with* Ortuno-Ortin, Ignacio) Political compromise and endogenous formation of coalitions. (English summary) **99d:92058**
Mayer-Kress, Gottfried *see* **Campbell, David K., (99d:00006)**
Ortuno-Ortin, Ignacio *see* **Gerber, Anke, 99d:92058**

Items with secondary classifications in 92K10

Chen, Baizhu (*with* Feng, Yi) Economic development and the transition to democracy: a formal model. (English summary) **99k:92052**
Feng, Yi *see* **Chen, Baizhu, 99k:92052**
Moscarini, Giuseppe (*with* Ottaviani, Marco; Smith, Lones) Social learning in a changing world. (English summary) **99e:92040**
Ottaviani, Marco *see* **Moscarini, Giuseppe; et al., 99e:92040**
Smith, Lones *see* **Moscarini, Giuseppe; et al., 99e:92040**
Tanguiane, Andranick S. Election of vice-president and adding new members to representative bodies. (English summary) **99a:90072**

92K20 Linguistics [see also 03B65, 68S05]

Items with secondary classifications in 92K20

Algoet, P. H. *see* **Kontoyiannis, Ioannis; et al., 99c:94015**
Kontoyiannis, Ioannis (*with* Algoet, P. H.; Sukhov, Yu. M.; Wyner, Abraham J.) Nonparametric entropy estimation for stationary processes and random fields, with applications to English text. (English summary) **99c:94015**
Link, Godehard ★ Algebraic semantics in language and philosophy. (English summary) **99f:03034**
Sukhov, Yu. M. *see* **Kontoyiannis, Ioannis; et al., 99c:94015**
Wyner, Abraham J. *see* **Kontoyiannis, Ioannis; et al., 99c:94015**

93–XX Systems theory; control {For optimal control, see 49–XX.}

93–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Bissell, C. C. Bibliography of secondary sources for the history of control engineering: update 1995. (English summary)

93–01 Instructional exposition (textbooks, tutorial papers, etc.)

Helton, J. William (*with* Merino, Orlando) ★ Classical control using H^∞ methods. (English summary) **99i:93001**

— (*with* Merino, Orlando) ★ Classical control using H^∞ methods. (English summary) **99i:93002**

Merino, Orlando *see* **Helton, J. William, 99i:93001** *and* **99i:93002**

Sontag, Eduardo D. ★ Mathematical control theory. (English summary) **99k:93001**

Items with secondary classifications in 93–01

Finney, John D. *see* **Sadegh, Nader; et al., 99b:93019**

Heck, Bonnie S. *see* **Sadegh, Nader; et al., 99b:93019**

Polderman, Jan Willem (*with* Willems, Jan C.) ★ Introduction to mathematical systems theory. (English summary) **99f:93001**

Sadegh, Nader (*with* Finney, John D.; Heck, Bonnie S.) An explicit method for computing the positive real lemma matrices. (English summary) **99b:93019**

Willems, Jan C. *see* **Polderman, Jan Willem, 99f:93001**

93–02 Research exposition (monographs, survey articles)

(Albrecht, Rudolf F.) *see* **Systems: theory and practice, 99g:93002**

Ando, Yoshinori (*with* Suzuki, Masayuki) Trends in the singular perturbation method and in robust control of singularly perturbed systems. (Japanese)

Barker, H. A. Symbolic modelling and analysis of nonlinear systems. (*see* **99h:93005**)

Bhattacharyya, Shankar Prashad *see* **Keel, L. H., (99h:93005)** *and* **(99h:93005)**

Byrnes, Christopher I. On the global analysis of linear systems. (English summary) **99k:93002**

Chen, Ben M. ★ H_∞ control and its applications. **99m:93001**

Chen, Guanrong (*with* Dong, Xiaoning) ★ From chaos to order. (English summary) **99i:93003**

Chen, Shan Ben *see* **Chen, Yang Zhou; et al.**

Chen, Tongwen (*with* Francis, Bruce Allen) ★ Optimal sampled-data control systems. (English summary) **99a:93001**

Chen, Yang Zhou (*with* Chen, Shan Ben; Liu, Jia Qi) The frequency theorem (Kalman-Yakubovich lemma) in control theory. (Chinese. English and Chinese summaries)

Colonius, Fritz (*with* Kliemann, Wolfgang) Control theory and dynamical systems. (English summary) **99e:93001**

Dahleh, Munther A. *see* **Elia, Nicola, 99j:93001**

Deng, Hua *see* **Krstić, Miroslav, 99h:93001**

Dewilde, Patrick (*with* van der Veen, Alle-Jan) ★ Time-varying systems and computations. (English summary) **99g:93001**

Dion, Jean-Michel *see* **Niculescu, Silviu-Iulian; et al., (99h:93004)**

Dong, Xiaoning *see* **Chen, Guanrong, 99i:93003**

Dugard, Luc *see* **Niculescu, Silviu-Iulian; et al., (99h:93004)**

Elia, Nicola (*with* Dahleh, Munther A.) ★ Computational methods for controller design. **99j:93001**

Francis, Bruce Allen *see* **Chen, Tongwen, 99a:93001**

(Jakubczyk, Bronisław) *see* **Geometry of feedback and optimal control, 99b:93001**

Jonckheere, Edmond A. ★ Algebraic and differential topology of robust stability. **99d:93001**

Keel, L. H. (*with* Bhattacharyya, Shankar Prashad) Robust control under parametric uncertainty. I. Analysis. (*see* **99h:93005**)

— (*with* Bhattacharyya, Shankar Prashad) Robust control under parametric uncertainty. II. Design. (*see* **99h:93005**)

Kliemann, Wolfgang *see* **Colonius, Fritz, 99e:93001**

Krabs, Werner ★ Dynamische Systeme: Steuerbarkeit und chaotisches Verhalten. (German. German summary) [Dynamical systems: controllability and chaotic behavior] **99i:93004**

Krstić, Miroslav (*with* Deng, Hua) ★ Stabilization of nonlinear uncertain systems. (English summary) **99h:93001**

Lee, Tong-Heng *see* **Wang, Qing-Guo; et al., 99k:93003**

Liu, Jia Qi *see* **Chen, Yang Zhou; et al.**

(Mees, Alistair I.) *see* **Chen, Guanrong, 99i:93003**

(Merinov, Igor E.) *see* **Vorotnikov, V. I., 99a:93002**

Miyasato, Yoshihiko *see* **Ohmori, Hiromitsu**

Niculescu, Silviu-Iulian (*with* Verriest, Erik I.; Dugard, Luc; Dion, Jean-Michel) Stability and robust stability of time-delay systems: a guided tour. (English summary) (*see* **99h:93004**)

Ohmori, Hiromitsu (*with* Miyasato, Yoshihiko) Trends in adaptive control theory. (Japanese)

Pedrycz, Witold ★ Fuzzy sets engineering.

Polderman, Jan Willem (*with* Willems, Jan C.) ★ Introduction to mathematical systems theory. (English summary) **99f:93001**

(Respondek, Witold) *see* **Geometry of feedback and optimal control, 99b:93001**

Schlacher, Kurt Mathematical strategies common to mechanics and control. (English summary) **99h:93002**

Stortelder, W. J. H. ★ Parameter estimation in nonlinear dynamic systems. (English summary) **99j:93002**

Suzuki, Masayuki *see* **Ando, Yoshinori**

Tan, Kok Kiong *see* **Wang, Qing-Guo; et al., 99k:93003**

van der Veen, Alle-Jan *see* **Dewilde, Patrick, 99g:93001**

Verriest, Erik I. *see* **Niculescu, Silviu-Iulian; et al., (99h:93004)**

Vorotnikov, V. I. ★ Partial stability and control. (English summary) **99a:93002**

Wang, Qing-Guo (*with* Lee, Tong-Heng; Tan, Kok Kiong) ★ Finite spectrum assignment for time-delay systems. **99k:93003**

Willems, Jan C. *see* **Polderman, Jan Willem, 99f:93001**

(Zadeh, Lotfi A.) *see* **Pedrycz, Witold**

Zubov, N. V. *see* **Zubov, S. V., 99f:93002**

Zubov, S. V. (*with* Zubov, N. V.) ★ Математические методы стабилизации динамических систем. (Russian. Russian summary) [Mathematical methods for the stabilization of dynamical systems] **99f:93002**

Items listed otherwise than by author

Geometry of feedback and optimal control ★ Geometry of feedback and optimal control. **99b:93001**

Systems: theory and practice ★ Systems: theory and practice. **99g:93002**

Items with secondary classifications in 93–02

Agrachev, Andrei (*with* Gamkrelidze, Revaz Valerianovich) Symplectic methods for optimization and control. (English summary) (*see* **99b:93001**)

Atanassova, Lidiya Y. (*with* Hinrichsen, Diederich; Kharitonov, Vladimir L.) Convex directions for stable polynomials and quasipolynomials: a survey of recent results. (English summary) (*see* **99h:93004**)

Bewley, Thomas R. *see* **Temam, Roger; et al., (99k:93007)**

Blankenship, G. L. (*with* Kwatny, Harry G.) Computational methods for control of dynamical systems. (*see* **99h:93005**)

Burovoi, I. A. *see* **Emel'yanov, S. V.; et al., 99a:93040**

Butkovskiĭ, A. G. Cybernetics and structures. (Russian. English, Russian and Ukrainian summaries)

Chen, Gan *see* **Sugie, Toshiharu**

(Chibisov, D. M.) *see* **Milyutin, Alekseĭ A., 99g:49002**

Clarke, F. H. (*with* Ledyaev, Yu. S.; Stern, Ronald Jay; Wolenski, Peter R.) ★ Nonsmooth analysis and control theory. (English summary) **99a:49001**

Curtain, Ruth F. The Salamon-Weiss class of well-posed infinite-dimensional linear systems: a survey. (English summary) **99a:93054**

Emel'yanov, S. V. (*with* Burovoi, I. A.; Levada, F. Yu.) ★ Control of indefinite nonlinear dynamic systems. (English summary) **99a:93040**

Fomin, Vladimir ★ Optimal filtering. Vol. I. (English summary) **99m:93102**

(Fomina, Natalie) *see* **Fomin, Vladimir, 99m:93102**

Fornasini, Ettore (*with* Valcher, Maria Elena) Recent developments in 2D positive systems theory. (English summary) **99c:93063**

Gamkrelidze, Revaz Valerianovich *see* **Agrachev, Andrei, (99b:93001)**

Gorez, R. Fuzzy control versus conventional control. (English summary) (*see* **99a:90004**)

Hara, Shinji *see* **Iwasaki, Tetsuya, 99d:93025**

Helton, J. William (*with* Merino, Orlando) ★ Classical control using H^∞ methods. (English summary) **99i:93001**

— (*with* Merino, Orlando) ★ Classical control using H^∞ methods. (English summary) **99i:93002**

Hinrichsen, Diederich *see* **Atanassova, Lidiya Y.; et al., (99h:93004)**

(Ivanov, P. S.) *see* **Emel'yanov, S. V.; et al., 99a:93040**

Iwasaki, Tetsuya (*with* Hara, Shinji) LMI based control design: solutions to nonconvex problems. **99d:93025**

Kharitonov, Vladimir L. *see* **Atanassova, Lidiya Y.; et al., (99h:93004)**

Klamka, Jerzy Controllability of 2-D systems: a survey. (English summary) **99c:93065**

Kodama, Shinzo (*with* Ushio, Toshimitsu) The theory of discrete event systems—past and present. (Japanese) (*see* **99g:93006**)

Kwakernaak, Huibert Frequency domain solution of the $\mathscr{H}_\infty$ problem for descriptor systems. (English summary) (*see* **99g:93003**)

Kwatny, Harry G. *see* **Blankenship, G. L., (99h:93005)**

Lasiecka, Irena Mathematical control theory in structural acoustic problems. (English summary) **99j:93057**

Ledyaev, Yu. S. *see* **Clarke, F. H.; et al., 99a:49001**

Levada, F. Yu. *see* **Emel'yanov, S. V.; et al., 99a:93040**

Logemann, Hartmut (*with* Townley, Stuart) Adaptive control of infinite-dimensional systems without parameter estimation: an overview. (English summary) **99f:93087**

Maas, W. C. A. ★ Nonlinear $\mathscr{H}_\infty$ control: the singular case. **99a:93031**

Merino, Orlando *see* **Helton, J. William, 99i:93001** *and* **99i:93002**

Milyutin, Alekseĭ A. (*with* Osmolovskii, Nikolai P.) ★ Calculus of variations and optimal control. (English summary) **99g:49002**

Moin, Parviz *see* **Temam, Roger; et al., (99k:93007)**

Osmolovskii, Nikolai P. *see* **Milyutin, Alekseĭ A., 99g:49002**

Perov, V. P. (*with* Shcherbakova, I. V.) ★ Статистическая динамика дискретных систем. (Russian. Russian summary) [Statistical dynamics of discrete systems] **99h:93098**

Polyak, B. T. Convexity of quadratic transformations and its use in control and optimization. (English summary) **99i:90069**

Rocha, Paula (*with* Wood, Jeffrey James) A new perspective on controllability properties for dynamical systems. (English summary) (*see* **99a:92001**)

Shaw, Ian S. ★ Fuzzy control of industrial systems.

Shcherbakova, I. V. *see* **Perov, V. P., 99h:93098**

Shirayanagi, Kiyoshi New uses for stabilization theory. (Japanese) (*see* **99h:00034**)

Sontag, Eduardo D. ★ Mathematical control theory. (English summary) **99k:93001**

Stern, Ronald Jay *see* **Clarke, F. H.; et al., 99a:49001**

Sugie, Toshiharu (*with* Chen, Gan) Stability analysis via structured singular value μ—real μ analysis. (Japanese)

Temam, Roger (*with* Bewley, Thomas R.; Moin, Parviz) Control of turbulent flows. (*see* **99k:93007**)

Townley, Stuart *see* **Logemann, Hartmut, 99f:93087**

Ushio, Toshimitsu *see* **Kodama, Shinzo, (99g:93006)**

Vakman, David ★ Signals, oscillations, and waves. **99g:94005**

Valcher, Maria Elena *see* **Fornasini, Ettore, 99c:93063**

Wolenski, Peter R. *see* **Clarke, F. H.; et al., 99a:49001**
Wood, Jeffrey James *see* **Rocha, Paula, (99a:92001)**
Yurkovich, Stephen A control engineer's perspective on fuzzy control. (*see* **99g:93003**)

Items listed otherwise than by author

Lecture Notes in Control and Information Sciences *see* **Emel'yanov, S. V.; et al., 99a:93040**

93–03 Historical (must also be assigned at least one classification number from Section 01)

Fuller, A. T. Maxwell's treatment of governors fitted with differential gears. (English summary)
Jury, Eliahu I. The roles of Sylvester and Bezoutian matrices in the historical study of stability of linear discrete-time systems. (English summary) **99j:93003**
Krasovskiĭ, A. A. Scientific knowledge and the state of the modern theory of the control of engineering systems. (Russian. Russian summary)

93–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 93–04

Deshpande, Akash (*with* Göllü, Aleks; Semenzato, Luigi) The SHIFT programming language for dynamic networks of hybrid automata. (*see* **99a:93006**)
Göllü, Aleks *see* **Deshpande, Akash; et al., (99a:93006)**
Helton, J. William (*with* Stankus, Mark; Wavrik, John J.) Computer simplification of formulas in linear systems theory. (English summary) **99a:93020**
Rios-Bolivar, Miguel (*with* Zinober, Alan S. I.) A symbolic computation toolbox for the design of dynamical adaptive nonlinear controllers. (English summary) (*see* **99a:93003**)
Semenzato, Luigi *see* **Deshpande, Akash; et al., (99a:93006)**
Stankus, Mark *see* **Helton, J. William; et al., 99a:93020**
Szili, László (*with* Tóth, János) Numerical and symbolic applications of Mathematica. (English summary)
Tóth, János *see* **Szili, László**
Wavrik, John J. *see* **Helton, J. William; et al., 99a:93020**
Zinober, Alan S. I. *see* **Rios-Bolívar, Miguel, (99a:93003)**

93–06 Proceedings, conferences, collections, etc.

(Antsaklis, Panos J.) *see* **Hybrid control systems, 99a:93006**
(Baillieul, John) *see* **Mathematical control theory, 99g:93004**
(Bartlett, Peter L.) *see* **Learning theory, 99b:93003**
(Brockett, Roger Ware) *see* **Mathematical control theory, 99g:93004**
(Dontchev, Asen L.) *see* **Systems modelling and optimization, 99k:93007**
(Dugard, Luc) *see* **Stability and control of time-delay systems, 99h:93004**
(Ferreyra, Guillermo) *see* **Differential geometry and control, 99f:93003**
(Francis, Bruce Allen) *see* **Learning, control and hybrid systems, 99g:93003**
(Gardner, Robert Brown) *see* **Differential geometry and control, 99f:93003**
(Gilliam, David S.) *see* **Dynamical systems, control, coding, computer vision, 99k:93006**
(Grauel, A.) *see* **Analytical and structural considerations in fuzzy modeling, 99k:93004**
(Hara, Shinji) *see* **Learning, control and hybrid systems, 99g:93003**
(Hermes, Henry) *see* **Differential geometry and control, 99f:93003**
(Isidori, Alberto) *see* **Twenty years of feedback linearization of nonlinear systems, 99f:93004**
(Jurdjevic, V.) *see* **Geometric control and non-holonomic mechanics, 99d:93002**
(Kall, Peter) *see* **Systems modelling and optimization, 99k:93007**
(Katayama, Tohru) *see* **Statistical methods in control and signal processing, 99b:93004**
(Kavranoğlu, Davut) *see* **Controller reduction and system approximation, 99k:93005**
(Kolmanovskiĭ, Vladimir B.) *see* **Delay systems, 99a:93005**
(Lasiecka, Irena) *see* **Systems modelling and optimization, 99k:93007**
(Munro, Neil) *see* **Symbolic methods in control system analysis and design, 99h:93005**
(Nerode, Anil) *see* **Hybrid control systems, 99a:93006**
(Nijmeijer, Henk) *see* **Twenty years of feedback linearization of nonlinear systems, 99f:93004**
(Olbrot, Andrzej W.) *see* **Systems modelling and optimization, 99k:93007**
(Picci, Giorgio) *see* **Dynamical systems, control, coding, computer vision, 99k:93006**
(Polis, Michael P.) *see* **Systems modelling and optimization, 99k:93007**
(Ramirez, W. Fred) *see* **Data processing and process control, 99h:93003**
(Richard, Jean-Pierre) *see* **Delay systems, 99a:93005**
(Sharpe, R. W.) *see* **Geometric control and non-holonomic mechanics, 99d:93002**
(Sklyar, M. V.) *see* **Data processing and process control, 99h:93003**
(Sugimoto, Sueo) *see* **Statistical methods in control and signal processing, 99b:93004**
(Sussmann, Héctor J.) *see* **Differential geometry and control, 99f:93003**
(Verriest, Erik I.) *see* **Stability and control of time-delay systems, 99h:93004**
(Vidyasagar, Mathukumalli) *see* **Learning theory, 99b:93003** *and* **Learning, control and hybrid systems, 99g:93003**
(Willems, Jan C.) *see* **Mathematical control theory, 99g:93004**
(Yamamoto, Yutaka) *see* **Learning, control and hybrid systems, 99g:93003**
(Yu, Xing-Huo) *see* **Adaptive learning and control using sliding modes, 99a:93003**
(Zhou, Kemin) *see* **Controller reduction and system approximation, 99k:93005**

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Adaptive learning and control using sliding modes ★ Adaptive learning and control using sliding modes. **99a:93003**
Analytical and structural considerations in fuzzy modeling ★ Analytical and structural considerations in fuzzy modeling. **99k:93004**
Automatic control ★ Automatic control. **99a:93004**
Bangalore ★ Learning, control and hybrid systems. **99g:93003**
Birthday:
  Brockett, Roger Ware ★ Mathematical control theory. **99g:93004**
Boulder, CO ★ Differential geometry and control. **99f:93003**
Conference:
  Computational Engineering in Systems Applications ★ Delay systems. **99a:93005**
  Geometric Control Theory and Non-holonomic Problems in Mechanics ★ Geometric control and non-holonomic mechanics. **99d:93002**
Control and identification algorithms ★ Control and identification algorithms. **99b:93002**
Controller reduction and system approximation ★ Controller reduction and system approximation. **99k:93005**
Data processing and process control ★ Data processing and process control. **99h:93003**
Delay systems ★ Delay systems. **99a:93005**
Detroit, MI ★ Systems modelling and optimization. **99k:93007**
Differential geometry and control ★ Differential geometry and control. **99f:93003**
Dynamical systems, control, coding, computer vision ★ Dynamical systems, control, coding, computer vision. **99k:93006**
Festschrift:
  Brockett, Roger Ware ★ Mathematical control theory. **99g:93004**
  Francis, Bruce Allen ★ Learning, control and hybrid systems. **99g:93003**
  Vidyasagar, Mathukumalli ★ Learning, control and hybrid systems. **99g:93003**
Geometric control and non-holonomic mechanics ★ Geometric control and non-holonomic mechanics. **99d:93002**
Hybrid control systems ★ Hybrid control systems. **99a:93006**
IFIP Conference:
  Systems Modelling and Optimization ★ Systems modelling and optimization. **99k:93007**
Knoxville, TN ★ Special issue on Barrett Lectures in control theory. **99g:93005**
Learning, control and hybrid systems ★ Learning, control and hybrid systems. **99g:93003**
Learning theory ★ Learning theory. **99b:93003**
Lecture Notes in Control and Information Sciences ★ Stability and control of time-delay systems. **99h:93004**
— ★ Learning, control and hybrid systems. **99g:93003**
Lectures:
  Barrett, John H. ★ Special issue on Barrett Lectures in control theory. **99g:93005**
Lille ★ Delay systems. **99a:93005**
Mathematical control theory ★ Mathematical control theory. **99g:93004**
Mexico City ★ Geometric control and non-holonomic mechanics. **99d:93002**
Padova ★ Dynamical systems, control, coding, computer vision. **99k:93006**
Proceedings of Symposia in Pure Mathematics ★ Differential geometry and control. **99f:93003**
Research Institute:
  Differential Geometry and Control ★ Differential geometry and control. **99f:93003**
Session:
  Recent Results on Time-Delay Systems ★ Delay systems. **99a:93005**
Soest ★ Analytical and structural considerations in fuzzy modeling. **99k:93004**
Special Issue:
  Adaptive learning and control using sliding modes ★ Adaptive learning and control using sliding modes. **99a:93003**
  Automatic control ★ Automatic control. **99a:93004**
  Barrett Lectures in control theory ★ Special issue on Barrett Lectures in control theory. **99g:93005**
  Controller reduction and system approximation ★ Controller reduction and system approximation. **99k:93005**
  Data processing and process control ★ Data processing and process control. **99h:93003**
  Hybrid control systems ★ Hybrid control systems. **99a:93006**
  Learning theory ★ Learning theory. **99b:93003**
  New trends in discrete event systems ★ Special issue on new trends in discrete event systems. (Japanese) **99g:93006**
  Twenty years of feedback linearization of nonlinear systems ★ Twenty years of feedback linearization of nonlinear systems. **99f:93004**
Stability and control of time-delay systems ★ Stability and control of time-delay systems. **99h:93004**
Statistical methods in control and signal processing ★ Statistical methods in control and signal processing. **99b:93004**
Symbolic methods in control system analysis and design ★ Symbolic methods in control system analysis and design. **99h:93005**
Symposium:
  Mathematical Theory of Networks and Systems ★ Dynamical systems, control, coding, computer vision. **99k:93006**
Systems modelling and optimization ★ Systems modelling and optimization. **99k:93007**
Twenty years of feedback linearization of nonlinear systems ★ Twenty years of feedback linearization of nonlinear systems. **99f:93004**
Workshop:
  Fuzzy-Neuro Systems '97—Computational Intelligence ★ Analytical and structural considerations in fuzzy modeling. **99k:93004**
  Learning, Control and Hybrid Systems ★ Learning, control and hybrid systems. **99g:93003**

Items with secondary classifications in 93–06

(Aleshkov, Yu. Z.) *see* **Mathematical methods for modeling and analysis of controlled processes, 99a:00014**
(Baillieul, John) *see* **Essays on mathematical robotics, 99e:70001**
(Bergman, L. A.) *see* **Dynamics and control of distributed systems, 99b:73002**
(Caccetta, Louis) *see* **Dynamics and optimization, 99g:49003**
(Desch, W.) *see* **Control and estimation of distributed parameter systems, 99b:49001**
(Fabre, Caroline) *see* **Control and partial differential equations, 99g:00037**
(Hager, William W.) *see* **Optimal control, 99d:49002**
(Kappel, F.) *see* **Control and estimation of distributed parameter systems, 99b:49001**
(Khokholov, V. B.) *see* **Dynamics of control systems, and computational processes, 99m:00021**
(Kirkland, Stephen J.) *see* **Proceedings: Conference of the International Linear Algebra Society, 99a:00039**
(Kunisch, Karl) *see* **Control and estimation of distributed parameter systems, 99b:49001**
(Liu, Xinzhi) *see* **Differential equations and dynamical systems, 99m:34001**
(Mahrenholtz, O.) *see* **ICIAM/GAMM 95, 99f:00010b**

(Marti, Kurt) *see* **ICIAM/GAMM 95, 99f:00010b**
(Mehrmann, Volker) *see* **Proceedings: Conference of the International Linear Algebra Society, 99a:00039**
(Mennicken, R.) *see* **ICIAM/GAMM 95, 99f:00010b**
(Michler, Gerhard O.) *see* **Proceedings: Conference of the International Linear Algebra Society, 99a:00039**
(Mignot, Fulbert) *see* **Control and partial differential equations, 99g:00037**
(Nguyen, Hung T.) *see* **Sugeno, Michio**
(Pardalos, Panos M.) *see* **Optimal control, 99d:49002**
(Prasad, Nadipuram R.) *see* **Sugeno, Michio**
(Puel, Jean-Pierre) *see* **Control and partial differential equations, 99g:00037**
(Sastry, S. Shankar) *see* **Essays on mathematical robotics, 99e:70001**
(Schellnhuber, H. J.) *see* **Earth system analysis, 99f:00016**
(Shader, Bryan L.) *see* **Proceedings: Conference of the International Linear Algebra Society, 99a:00039**
(Siegel, David) *see* **Differential equations and dynamical systems, 99m:34001**
(Sritharan, S. S.) *see* **Optimal control of viscous flow, 99a:49003**
Sugeno, Michio ★ Fuzzy modeling and control. (English summary)
(Sussmann, Héctor J.) *see* **Essays on mathematical robotics, 99e:70001**
(Teo, Kok Lay) *see* **Dynamics and optimization, 99g:49003**
(Tucsnak, Marius) *see* **Control and partial differential equations, 99g:00037**
(Tzou, H. S.) *see* **Dynamics and control of distributed systems, 99b:73002**
(Wenzel, Volker) *see* **Earth system analysis, 99f:00016**
(Zadeh, Lotfi A.) *see* **Sugeno, Michio**
(Zuazua, Enrique) *see* **Control and partial differential equations, 99g:00037**

Items listed otherwise than by author

Chemnitz ★ Proceedings of the Sixth Conference of the International Linear Algebra Society. **99a:00039**
Conference:
Control and Estimation of Distributed Parameter Systems ★ Control and estimation of distributed parameter systems. **99b:49001**
Control and Partial Differential Equations ★ Control and partial differential equations. **99g:00037**
Differential Equations and Dynamical Systems ★ Dynamics and optimization. **99g:49003**
— ★ Differential equations and dynamical systems. **99m:34001**
International Linear Algebra Society ★ Proceedings of the Sixth Conference of the International Linear Algebra Society. **99a:00039**
Optimal Control: Theory, Algorithms, and Applications ★ Optimal control. **99d:49002**
Congress:
Industrial and Applied Mathematics ★ ICIAM/GAMM 95. **99f:00010b**
Control and estimation of distributed parameter systems ★ Control and estimation of distributed parameter systems. **99b:49001**
Control and partial differential equations ★ Control and partial differential equations. **99g:00037**
Differential equations and dynamical systems ★ Differential equations and dynamical systems. **99m:34001**
Dynamics and control of distributed systems ★ Dynamics and control of distributed systems. **99b:73002**
Dynamics and optimization ★ Dynamics and optimization. **99g:49003**
Dynamics of control systems, and computational processes ★ Динамика систем управления и вычислительные процессы. (Russian) [Dynamics of control systems, and computational processes] **99m:00021**
Earth system analysis ★ Earth system analysis. **99f:00016**
Essays on mathematical robotics ★ Essays on mathematical robotics. **99e:70001**
Gainesville, FL ★ Optimal control. **99d:49002**
Hamburg ★ ICIAM/GAMM 95. **99f:00010b**
ICIAM/GAMM 95 ★ ICIAM/GAMM 95. **99f:00010b**
Marseille-Luminy ★ Control and partial differential equations. **99g:00037**
Mathematical methods for modeling and analysis of controlled processes ★ Математические методы моделирования и анализа управляемых процессов. (Russian) [Mathematical methods for modeling and analysis of controlled processes] **99a:00014**
Minneapolis, MN ★ Essays on mathematical robotics. **99e:70001**
Optimal control ★ Optimal control. **99d:49002**
Optimal control of viscous flow ★ Optimal control of viscous flow. **99a:49003**
Potsdam ★ Earth system analysis. **99f:00016**
Proceedings:
Conference of the International Linear Algebra Society ★ Proceedings of the Sixth Conference of the International Linear Algebra Society. **99a:00039**
Session:
Dynamics and Optimization ★ Dynamics and optimization. **99g:49003**
Symposium:
Earth System Analysis ★ Earth system analysis. **99f:00016**
Vorau ★ Control and estimation of distributed parameter systems. **99b:49001**
Waterloo, ON ★ Dynamics and optimization. **99g:49003**
— ★ Differential equations and dynamical systems. **99m:34001**
Workshop:
Robotics ★ Essays on mathematical robotics. **99e:70001**

93Axx General

93A05 Axiomatic system theory

Butkovskiĭ, A. G. Cybernetics and structures. (Russian. English, Russian and Ukrainian summaries)
Cheng, T. C. Edwin *see* **Lin, Fu Yong**
Lin, Fu Yong (*with* Cheng, T. C. Edwin) The principles and laws of general systems and their applications. (English summary)
Lomadze, Vakhtang (*with* Ravi, M. S.; Rosenthal, Joachim; Schumacher, J. M.) A behavioral approach to singular systems. (English summary) **99m:93002**
Rattray, Charles Abstractly modelling complex systems. (*see* **99g:93002**)
Ravi, M. S. *see* **Lomadze, Vakhtang; et al., 99m:93002**
Rosenthal, Joachim *see* **Lomadze, Vakhtang; et al., 99m:93002**
Schumacher, J. M. *see* **Lomadze, Vakhtang; et al., 99m:93002**

Items with secondary classifications in 93A05

(Albrecht, Rudolf F.) *see* **Systems: theory and practice, 99g:93002**
Pyt'ev, Yu. P. Foundations of possibility theory. Methods for optimal estimation and decision making. V. Fuzzy elements, independence and conditional distributions. (Russian. Russian summary)

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Systems: theory and practice ★ Systems: theory and practice. **99g:93002**

93A10 General systems

Butkovskiĭ, A. G. Geometrical structures in control theory. (English summary)
Fröhler, Stefan (*with* Oberst, Ulrich) Continuous time-varying linear systems. (English summary) **99h:93006**
Lin, Fu Yong (*with* Wu, Jian Zhong[2]) The structural theory of general systems and its applications. (Chinese. English and Chinese summaries)
— (*with* Wu, Jian Zhong[2]) The structural theory of general systems and its applications. II. (Chinese. English and Chinese summaries)
Oberst, Ulrich *see* **Fröhler, Stefan, 99h:93006**
Trentelman, H. L. *see* **Willems, Jan C., 99i:93005**
Willems, Jan C. (*with* Trentelman, H. L.) On quadratic differential forms. (English summary) **99i:93005**
Wu, Jian Zhong[2] *see* **Lin, Fu Yong**

Items with secondary classifications in 93A10

Hautus, M. L. J. State feedback in general discrete-time systems. (English summary) **99f:93027**
Rattray, Charles Abstractly modelling complex systems. (*see* **99g:93002**)

93A13 Hierarchical systems

Caines, Peter E. (*with* Wei, Yuan-Jun) Hierarchical hybrid control systems: a lattice-theoretic formulation. (English summary) **99j:93004**
Cheng, Cheng-Fa Disturbances attenuation for interconnected systems by decentralized control. (English summary)
Daigo, Motomasa *see* **Shiraishi, Shunsuke; et al., (99h:90006)**
Davison, Edward J. *see* **İftar, Altuğ**
Gao, Hui Qi *see* **Hou, Zeng Guang; et al.**
Hayton, G. E. *see* **Karampetakis, N. P.; et al., 99c:93001**
Hou, Zeng Guang (*with* Wu, Cang Pu) A new method for real-time hierarchical control of large-scale dynamical systems. (Chinese. English and Chinese summaries) (*see* **99a:93004**)
— (*with* Gao, Hui Qi; Wu, Cang Pu) A neural network based method for dynamical hierarchical optimization of a class of large-scale systems. (Chinese. English and Chinese summaries)
— (*with* Wu, Cang Pu) Hierarchical optimization of nonlinear large-scale systems: a neural network method. (Chinese. English and Chinese summaries)
Hu, Qing Ping *see* **Lin, Yi[3]; et al., 99f:93005**
İftar, Altuğ (*with* Davison, Edward J.) A decentralized discrete-time controller for dynamic routing. (English summary)
Karampetakis, N. P. (*with* Pugh, A. C.; Hayton, G. E.) Notes on a hierarchical theory of systems and applications. (English summary) **99c:93001**
Kobara, Michihiko *see* **Xu, Hua; et al., 99k:93008**
Li, Dan *see* **Lin, Yi[3]; et al., 99f:93005**
Lin, Yi[3] (*with* Hu, Qing Ping; Li, Dan) On α-type hierarchies of systems. (English and Polish summaries) **99f:93005**
Mizukami, Koichi *see* **Xu, Hua; et al., 99k:93008**
Mohammadian, M. *see* **Stonier, R. J., (99g:00035)**
Müllers, Katharina Cascades for dynamical games. (English summary) **99h:93007**
Nakajima, Nobuyuki *see* **Shiraishi, Shunsuke; et al., (99h:90006)**
Obata, Tsuneshi *see* **Shiraishi, Shunsuke; et al., (99h:90006)**
Pugh, A. C. *see* **Karampetakis, N. P.; et al., 99c:93001**
Sekitani, Kazuyuki *see* **Yamaki, Naokazu, (99h:90006)**
Shiraishi, Shunsuke (*with* Obata, Tsuneshi; Daigo, Motomasa; Nakajima, Nobuyuki) Properties of a positive reciprocal matrix and their application to estimating priority weights for incomplete comparison matrices. (English summary) (*see* **99h:90006**)
Stonier, R. J. (*with* Mohammadian, M.) Intelligent hierarchical control for obstacle-avoidance. (*see* **99g:00035**)
Wei, Yuan-Jun *see* **Caines, Peter E., 99j:93004**
Wu, Cang Pu *see* **Hou, Zeng Guang; et al.** *and* **(99a:93004)**
Xu, Hua (*with* Mizukami, Koichi; Kobara, Michihiko) Memoryless equilibrium strategies in multilevel decision processes of discrete-time descriptor systems. (English summary) **99k:93008**
Yamaki, Naokazu (*with* Sekitani, Kazuyuki) Large-scale AHP with incomplete data. (Japanese. Japanese summary) (*see* **99h:90006**)

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Balashevich, N. V. (*with* Gabasov, R.; Kirillova, F. M.) Positional solution of a linear problem of optimal hierarchical control. (Russian. Russian summary) **99k:49080**
Chen, Xue-Bo *see* **Stanković, Srdjan S.; et al., 99m:93096**
Davies, Raymond (*with* Halikias, George D.) Hierarchical $\mathscr{H}_\infty/\mathscr{H}_2$ optimal control: 2-block problem. (English summary) **99f:93042**
Gabasov, R. *see* **Balashevich, N. V.; et al., 99k:49080**

Halikias, George D. (*with* Jaimoukha, Imad M.) Hierarchical optimization in $\mathscr{H}_\infty$. (English summary)
— *see also* **Davies, Raymond**, 99f:93042
Hao, Gang *see* **Wang, Lian Fen; et al.**
Huang, Shou Dong *see* **Wang, Gang; et al.**, 99i:93059
Jaimoukha, Imad M. *see* **Halikias, George D.**
Jing, Yuan Wei *see* **Wang, Gang; et al.**, 99i:93059
Kirillova, F. M. *see* **Balashevich, N. V.; et al.**, 99k:49080
Levin, Mark Sh. ★ Combinatorial engineering of decomposable systems. (English summary) **99a:90002**
Li, Jian Qiang *see* **Wang, Lian Fen; et al.**
Mataušek, Miroslav R. *see* **Stanković, Srdjan S.; et al.**, 99m:93096
Qian, Fu Cai (*with* Wan, Bai Wu) A hierarchical optimizing control algorithm for nonseparable steady states of large-scale systems. (Chinese. English and Chinese summaries)
Šiljak, Dragoslav D. *see* **Stanković, Srdjan S.; et al.**, 99m:93096
Silva, Geraldo Nunes (*with* Treskov, Yu. P.; Tsurkov, V. I.) The hierarchical model of the branch planning with random coefficients. (English summary)
Stanković, Srdjan S. (*with* Chen, Xue-Bo; Mataušek, Miroslav R.; Šiljak, Dragoslav D.) Stochastic inclusion principle applied to decentralized automatic generation control. (English summary) **99m:93096**
Treskov, Yu. P. *see* **Silva, Geraldo Nunes; et al.**
Tsurkov, V. I. *see* **Silva, Geraldo Nunes; et al.**
Wan, Bai Wu *see* **Qian, Fu Cai**
Wang, Gang (*with* Huang, Shou Dong; Jing, Yuan Wei) Decentralized stabilization and output tracking of uncertain symmetric composite systems. (Chinese. English and Chinese summaries) **99i:93059**
Wang, Lian Fen (*with* Hao, Gang; Li, Jian Qiang) A convex cone model for interval judgments in the analytic hierarchy process. (Chinese. English and Chinese summaries)

93A14 Decentralized systems

Aldeen, Mohammad *see* **Hu, Jiankun**
Arimoto, Suguru *see* **Liu, Yun-Hui; et al.**
Chen, Ye-Hwa *see* **Wang, Wen-June**
Cheng, Cheng-Fa Decentralized disturbance attenuation for interconnected systems. (English summary) **99k:93009**
Chow, Joe H. *see* **Shiau, Jaw-Kuen; et al.**
(El Geneidy, M.) *see* **Hu, Jiankun** *and* **Huang, Shou Dong**
(El Kashlan, A.) *see* **Hu, Jiankun** *and* **Huang, Shou Dong**
Fardanesh, B. *see* **Jain, Sandeep; et al.**
Hu, Jiankun (*with* Aldeen, Mohammad) Comments on: "Design of decentralized control for symmetrically interconnected systems" [Automatica J. IFAC **32** (1996), no. 3, 475–476] by A. El Kashlan and M. El Geneidy. (English summary)
Huang, Shou Dong (*with* Zhang, Si Ying) Comments on: "Design of decentralized control for symmetrically interconnected systems" [Automatica J. IFAC **32** (1996), no. 3, 475–476] by A. El Kashlan and M. El Geneidy. (English summary)
Jain, Sandeep (*with* Khorrami, Farshad; Fardanesh, B.) Decentralized control of large-scale power systems with unknown interconnections. (English summary)
— (*with* Khorrami, Farshad) Robust decentralized control of power systems utilizing only swing angle measurements. (English summary)
Khorrami, Farshad *see* **Jain, Sandeep; et al.**
Kitagaki, Kosei *see* **Liu, Yun-Hui; et al.**
Liu, Yong Qing *see* **Zhang, Jian[3]; et al.**
Liu, Yun-Hui (*with* Arimoto, Suguru; Parra-Vega, Vicente; Kitagaki, Kosei) Decentralized adaptive control of multiple manipulators in co-operations. (English summary)
Parra-Vega, Vicente *see* **Liu, Yun-Hui; et al.**
Shashikhin, V. N. Decentralized suboptimal control of parametrically perturbed systems with delay. (Russian. Russian summary)
She, Yan (*with* Zhang, Si Ying) Decentralized linearization and decentralized control for nonlinear large-scale systems. (Chinese. English and Chinese summaries)
Shen, Jian Jing *see* **Zhang, Jian[3]; et al.**
Shiau, Jaw-Kuen (*with* Taranto, Glauco N.; Chow, Joe H.) A decentralized control design method for model-matching robustness problems. (English summary)
Soh, Cheong Boon *see* **Wang, Dianhui**
Taranto, Glauco N. *see* **Shiau, Jaw-Kuen; et al.**
Wang, Dianhui (*with* Soh, Cheong Boon) On regularizing singular systems by decentralized output feedback. (English summary)
Wang, Wen-June (*with* Chen, Ye-Hwa) Decentralized robust control design with insufficient number of controllers. (English summary)
You, Shao Peng Decentralized self-tuning control of linear time-varying systems. (Chinese. English and Chinese summaries)
Zhang, Jian[3] (*with* Liu, Yong Qing; Shen, Jian Jing) Intelligent decentralized stabilization of large-scale interconnected linear systems with time delays. (Chinese. English and Chinese summaries)
Zhang, Si Ying *see* **Huang, Shou Dong** *and* **She, Yan**

Items with secondary classifications in 93A14

Abe, Kenichi *see* **Honma, Noriyasu; et al.**, **99a:93024**
Aldeen, Mohammad *see* **Gong, Zhiming**, **99h:93083**
Cassandras, Christos G. *see* **Vázquez-Abad, Felisa J.; et al.**, **99a:93093**
Datta, Aniruddha *see* **Ho, Ming-Tzu**
Gao, Feng[1] *see* **Liu, Wan Quan; et al.**
Gong, Zhiming (*with* Aldeen, Mohammad) Stabilization of decentralized control systems. (English summary) **99h:93083**
Gündeş, A. N. Stabilizing controllers for interconnected systems. (English summary)
— Reliable decentralized stabilization of linear systems. (English summary) **99j:93091**
Guo, Guoxiao *see* **Lim, Kia Yong; et al.**
Haines, Linda M. Interval judgements in the analytic hierarchy process: a statistical perspective. (English summary) (*see* **99g:90012**)
Hammer, Jacob On the control of incompletely described sequential machines. (English summary)
He, Jian-Bo *see* **Wang, Qing-Guo; et al.**
Hill, David J. *see* **Wen, Changyun**, **99f:93089**
Ho, Ming-Tzu (*with* Datta, Aniruddha) Partially decentralized adaptive control of interconnected systems with improved performance. (English summary)
Honma, Noriyasu (*with* Abe, Kenichi; Sato, Mitsuo; Takeda, Hiroshi[1]) Adaptive evolution of holon networks by an autonomous decentralized method. (English summary) **99a:93024**
Hsu, Kou-Cheng Decentralized variable-structure control design for uncertain large-scale systems with series nonlinearities. (English summary)
Julka, Vibhor *see* **Vázquez-Abad, Felisa J.; et al.**, **99a:93093**
Kung, Fan-Chu *see* **Yan, Jun-Juh; et al.**, **99b:93046**
Lam, James *see* **Yang, Guang-Hong; et al.**
Lee, Tong-Heng *see* **Wang, Qing-Guo; et al.**
Lim, Kia Yong (*with* Wang, You Yi[2]; Guo, Guoxiao; Zhou, Rujing) A new decentralized robust controller design for multi-area load-frequency control via incomplete state feedback. (English summary)
Liu, Ming[3] Decentralized control of robot manipulators: nonlinear and adaptive approaches. (English summary)
Liu, Wan Quan (*with* Sreeram, V.; Teo, Kok Lay; Gao, Feng[1]) Feedback control of singular decentralized systems with direct control feedthrough. (English and Chinese summaries)
Mizukami, Koichi *see* **Wu, Hansheng; et al.**, **99m:93078** *and* **Watanabe, Miyoko**
Sato, Mitsuo *see* **Honma, Noriyasu; et al.**, **99a:93024**
Seo, Jin H. A frequency domain method for decentralized stabilization based on quasi-block diagonal dominance. (English summary)
Sethi, Suresh P. (*with* Zhang, Qing[1]) Near optimization of dynamic systems by decomposition and aggregation. (English summary) **99k:49072**
Soh, Cheong Boon *see* **Yang, Guang-Hong; et al.**
Sreeram, V. *see* **Liu, Wan Quan; et al.**
Takai, Shigemasa On the language generated under fully decentralized supervision. (English summary)
Takeda, Hiroshi[1] *see* **Honma, Noriyasu; et al.**, **99a:93024**
Teo, Kok Lay *see* **Liu, Wan Quan; et al.**
Tsai, Jason Sheng Horng *see* **Yan, Jun-Juh; et al.**, **99b:93046**
Vázquez-Abad, Felisa J. (*with* Cassandras, Christos G.; Julka, Vibhor) Centralized and decentralized asynchronous optimization of stochastic discrete-event systems. (English summary) **99a:93093**
Wang, Jianliang *see* **Yang, Guang-Hong; et al.**
Wang, Qing-Guo (*with* Lee, Tong-Heng; He, Jian-Bo) Internal stability of interconnected systems. (English summary)
Wang, You Yi[2] *see* **Lim, Kia Yong; et al.**
Watanabe, Miyoko (*with* Mizukami, Koichi) Stability of decentralized control for a LQG large-scale interconnected system with uncertainty. (Japanese. English summary)
Wen, Changyun (*with* Hill, David J.) Decentralized adaptive linear control of complex systems using relative deadzones. (English summary) **99f:93089**
Wu, Cang Pu *see* **Xie, San Ming; et al.**, (**99a:93004**)
Wu, Hansheng (*with* Mizukami, Koichi; Zhang, Suyu) Robust stability conditions for large-scale interconnected systems with structured and unstructured uncertainties. (English summary) **99m:93078**
Xie, San Ming (*with* Wu, Cang Pu; Zhao, Chun Jun) Decentralized model reference adaptive control of large-scale nonlinear systems. (Chinese. English and Chinese summaries) (*see* **99a:93004**)
Yan, Jun-Juh (*with* Tsai, Jason Sheng Horng; Kung, Fan-Chu) Robust stabilization of large-scale systems with nonlinear uncertainties via decentralized state feedback. (English summary) **99b:93046**
Yang, Guang-Hong (*with* Wang, Jianliang; Soh, Cheong Boon; Lam, James) Decentralized H_∞-controller design for nonlinear systems. (English summary)
Zhang, Qing[1] *see* **Sethi, Suresh P.**, **99k:49072**
Zhang, Suyu *see* **Wu, Hansheng; et al.**, **99m:93078**
Zhao, Chun Jun *see* **Xie, San Ming; et al.**, (**99a:93004**)
Zhou, Rujing *see* **Lim, Kia Yong; et al.**

93A15 Large scale systems

Ivakhnenko, A. G. (*with* Ivakhnenko, G. A.) Normative prediction and optimal control of multidimensional plants by the self-organization of a system of nonphysical models. (Russian. English, Russian and Ukrainian summaries)
Ivakhnenko, G. A. *see* **Ivakhnenko, A. G.**

Items with secondary classifications in 93A15

Cao, Jian *see* **Hu, Shou Song; et al.**
Dahleh, Munther A. Identification of complex systems. (English summary) (*see* **99g:93003**)
Han, Chong Zhao *see* **Xu, Li Jian; et al.**
He, Ya Qun *see* **Hu, Shou Song; et al.**
Hu, Shou Song (*with* Cao, Jian; He, Ya Qun) Tracking large-scale interconnected systems with strong stability. (Chinese. English and Chinese summaries)
Lü, Xingya (*with* Yan, Xing Gang; Zhang, Si Ying) Robust stability and an estimation of PRD for nonlinear composite large-scale systems with uncertain parameters. (English and Chinese summaries) **99c:93081**
Sladký, Karel On composite stability of time-varying discrete interval systems. (English summary) **99h:93080**
Wan, Bai Wu *see* **Xu, Li Jian; et al.**
Wei, Bin[2] *see* **Xu, Li Jian; et al.**
Xu, Li Jian (*with* Wei, Bin[2]; Wan, Bai Wu; Han, Chong Zhao) An improved method of steady-state optimisation control. (Chinese. English and Chinese summaries)
Yan, Xing Gang *see* **Lü, Xingya; et al.**, **99c:93081**
Zhang, Si Ying *see* **Lü, Xingya; et al.**, **99c:93081**

93A20 Cascaded systems

Items with secondary classifications in 93A20

Chellaboina, Vijaya-Sekhar *see* **Haddad, Wassim M.; et al.**
Chen, Guanrong *see* **Shieh, Leang-San; et al., 99f:93095**
Fausz, Jerry L. *see* **Haddad, Wassim M.; et al.**
Haddad, Wassim M. (*with* Chellaboina, Vijaya-Sekhar; Fausz, Jerry L.) Optimal nonlinear disturbance rejection control for nonlinear cascade systems. (English summary)
Hedrick, J. Karl *see* **Stotskiĭ, A. A.; et al.**
Müllers, Katharina Cascades for dynamical games. (English summary) **99h:93007**
Shieh, Leang-San (*with* Wang, Wei Min^2; Chen, Guanrong) Discretization of cascaded continuous-time controllers and uncertain systems. (English summary) **99f:93095**
Stotskiĭ, A. A. (*with* Hedrick, J. Karl; Yip, P. Patrick) A universal stabilizing controller for a cascade dynamical system. (Russian)
Wang, Wei Min^2 *see* **Shieh, Leang-San; et al., 99f:93095**
Yip, P. Patrick *see* **Stotskiĭ, A. A.; et al.**

93A25 Input-output systems

Items with secondary classifications in 93A25

Morozan, T. Parametrized Riccati equations associated to input-output operators for discrete-time systems with state-dependent noise. (English summary) **99i:93072**

93A30 Mathematical modeling (models of systems, model-matching, etc.)

Aplevich, J. D. *see* **Miri, S. A., 99a:93008**
(Åström, K. J.) *see* **Canudas de Wit, Carlos**
Balmer, L. *see* **Dunoyer, A.; et al.**
Benveniste, Albert Compositional and uniform modeling of hybrid systems. (English summary) (*see* **99a:93006**)
Berger, C. S. Modelling dynamic systems using finite elements. (English summary)
Borkar, Vivek S. *see* **Branicky, Michael S.; et al., 99a:93007**
Branicky, Michael S. (*with* Borkar, Vivek S.; Mitter, Sanjoy K.) A unified framework for hybrid control: model and optimal control theory. (English summary) **99a:93007**
Brown, I. C. (*with* Larcombe, P. J.) A survey of customised computer algebra programs for multibody dynamic modelling. (*see* **99h:93005**)
Burnham, K. J. *see* **Dunoyer, A.; et al.**
Cabrera, O. *see* **El Jaï, Abdelhak; et al.**
Canudas de Wit, Carlos Comments on: "A new model for control of systems with friction" [IEEE Trans. Automat. Control **40** (1995), no. 3, 419–425] by Canudas-de-Wit, H. Olsson, K. J. Åström and P. Lischinsky. (English summary)
Carpanzano, Emanuele (*with* Maffezzoni, Claudio) Symbolic manipulation techniques for model simplification in object-oriented modelling of large scale continuous systems. (English summary)
Chentsov, A. G. *see* **Kryazhimskii, Arkadii V.; et al.**
Cohen, Guy (*with* Gaubert, Stéphane; Quadrat, Jean-Pierre) Algebraic system analysis of timed Petri nets. (English summary) **99b:93005**
Delaleau, Emmanuel (*with* Rudolph, Joachim) An intrinsic characterization of properness for linear time-varying systems. (English summary) **99g:93007**
Duan, Yiran *see* **Fujisaki, Yasumasa; et al.**
Dubi, A. Analytic approach & Monte Carlo methods for realistic systems analysis. (English summary) (*see* **99d:65008**)
Dunoyer, A. (*with* Balmer, L.; Burnham, K. J.; James, D. J. G.) On the discretization of single-input single-output bilinear systems. (English summary)
El Jaï, Abdelhak (*with* Kassara, K.; Cabrera, O.) Spray control. (English summary)
Fattash, I. *see* **Mazkur, A.; et al., 99k:93010**
Franchek, Matthew A. *see* **Glass, John W.**
Fujisaki, Yasumasa (*with* Duan, Yiran; Ikeda, Masao) A system representation and a control strategy based on an input-output data array. (Japanese. English summary)
Gałkowski, Krzysztof *see* **Rogers, Eric; et al., 99c:93003**
Gaubert, Stéphane *see* **Cohen, Guy; et al., 99b:93005**
Gersch, Will (*with* Kitagawa, Genshiro) General state space modeling. (*see* **99b:93004**)
Glass, John W. (*with* Franchek, Matthew A.) NARMAX modelling and robust control of internal combustion engines. (English summary)
Gregor, Jiří A formal approach to discrete systems theory. (English summary) **99c:93002**
Hayton, G. E. *see* **Hou, Ming; et al.**
Hétu, Jean-François (*with* Ilinca, Florin; Pelletier, Dominique) Process modeling and optimization: issues and challenges. (English summary) (*see* **99d:49001**)
Höskuldsson, Agnar The Heisenberg modelling procedure and applications to process control. (English summary) (*see* **99h:93003**)
Hou, Ming (*with* Pugh, A. C.; Hayton, G. E.) Generalized transfer functions and input-output equivalence. (English summary)
Humbert, J. Sean (*with* Krener, Arthur J.) Dynamics and control of entrained solutions in multi-mode Moore-Greitzer compressor models. (English summary)
Ikeda, Masao *see* **Fujisaki, Yasumasa; et al.**
Ilinca, Florin *see* **Hétu, Jean-François; et al., (99d:49001)**
Ivanenko, V. I. *see* **Zinchuk, N. A.**
de Jager, Bram Symbolic aids for modelling, analysis and synthesis of nonlinear control systems. (*see* **99h:93005**)
James, D. J. G. *see* **Dunoyer, A.; et al.**
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Kitagawa, Genshiro *see* **Gersch, Will, (99b:93004)**
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Kryazhimskii, Arkadii V. (*with* Maksimov, V. I.; Solov′ev, Aleksandr Anatol′evich; Chentsov, A. G.) On a probabilistic approach to the quantitative description of the dynamics of natural processes. (Russian. English, Russian and Ukrainian summaries)
Larcombe, P. J. *see* **Brown, I. C., (99h:93005)**
(Lischinsky-Arenas, Pablo) *see* **Canudas de Wit, Carlos**
Lychak, M. M. A set model of an uncertain process and its use in processing results of measurements. (Russian. English, Russian and Ukrainian summaries)
Maffezzoni, Claudio *see* **Carpanzano, Emanuele**
Maksimov, V. I. *see* **Kryazhimskii, Arkadii V.; et al.**
Maru, V. M. *see* **Singh, Rita; et al., 99e:93002**
Mazkur, A. (*with* Sushkov, Yu. A.; Fattash, I.) Mathematical models of multistate systems. (Russian. Russian summary) **99k:93010**
Miri, S. A. (*with* Aplevich, J. D.) Equivalence of n-dimensional Roesser and Fornasini-Marchesini models. (English summary) **99a:93008**
Mitter, Sanjoy K. *see* **Branicky, Michael S.; et al., 99a:93007**
Mogk, Georg Hybride Modellierung reaktiver Systeme unter Nutzung von funktionalem Vorwissen. [Hybrid modelling of reactive systems by using functional prior knowledge]
Moharir, P. S. *see* **Singh, Rita; et al., 99e:93002**
(Olsson, Henrik) *see* **Canudas de Wit, Carlos**
Otlăcan, Eufrosina La différentielle Fréchet-Marinescu dans la modélisation des systèmes dynamiques. (French and Romanian summaries) [The Fréchet-Marinescu differential in the modelling of dynamical systems] **99k:93011**
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Ramirez, W. Fred *see* **Tholudur, Arun, (99h:93003)**
Rogers, Eric (*with* Gałkowski, Krzysztof; Owens, David H.) Control systems theory for linear repetitive processes—recent progress and open research problems. (English summary) **99c:93003**
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Samoĭlenko, Yu. I. A model representation of the dynamics of the control of the configurations of an ice proton subsystem. (Russian. English, Russian and Ukrainian summaries)
Sandberg, Irwin W. (*with* Xu, Lilian) Approximation of myopic systems whose inputs need not be continuous. (English summary) **99b:93006**
van der Schaft, Arjan (*with* Schumacher, J. M.) Complementarity modeling of hybrid systems. (English summary) **99f:93006**
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Singh, Rita (*with* Maru, V. M.; Moharir, P. S.) Complex chaotic systems and emergent phenomena. (English summary) **99e:93002**
Smirnov, S. A. Modeling of quantum systems with control. II. Mathematical aspects of the problem. (Russian. English, Russian and Ukrainian summaries)
— Modeling of quantum systems with control. I. Systems analysis of physical constraints. (Russian. English, Russian and Ukrainian summaries)
Solov′ev, Aleksandr Anatol′evich *see* **Kryazhimskii, Arkadii V.; et al.**
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Tholudur, Arun (*with* Ramirez, W. Fred) System modelling using neural network parameter functions. (English summary) (*see* **99h:93003**)
Truman, Alan W. An analysis of sub-rate control systems. (English summary)
Weyer, Erik (*with* Kavli, Tom) Theoretical properties of the ASMOD algorithm for empirical modelling. (English summary)
Xu, Lilian *see* **Sandberg, Irwin W., 99b:93006**
Zinchuk, N. A. (*with* Ivanenko, V. I.) A model of a class of dynamical systems with a discrete state space. (Russian. English, Russian and Ukrainian summaries)

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(Albrecht, Rudolf F.) *see* **Systems: theory and practice, 99g:93002**
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Aubin, Jean-Pierre ★ Dynamic economic theory. **99c:90002**
Ballance, D. J. *see* **Gawthrop, P. J., (99h:93005)**
Barker, H. A. Symbolic modelling and analysis of nonlinear systems. (*see* **99h:93005**)
Bartlett, Peter L. (*with* Kulkarni, Sanjeev R.) The complexity of model classes, and smoothing noisy data. (English summary) **99f:93138**
Beretta, Edoardo (*with* Solimano, Fortunata; Takeuchi, Yasuhiro) A mathematical model for drug administration by using the phagocytosis of red blood cells. (English summary) **99g:92014**
Billings, S. A. *see* **Liu, Guo Ping; et al.**
Błachuta, Marian J. Discrete-time modeling of sampled-data control systems with direct feedthrough. (English summary)
Bocharnikov, V. P. A model of a fuzzy process for problems of the control of fuzzy dynamical systems. (Russian. English, Russian and Ukrainian summaries)
Bublik, G. F. *see* **Ivanov, Yu. E.**
Burns, John A. (*with* King, Belinda B.) A note on the mathematical modelling of damped second order systems. (English summary) **99h:34080**
Burovoi, I. A. *see* **Emel′yanov, S. V.; et al., 99a:93040**
Butera, Jeffrey V. (*with* Fitzpatrick, Ben G.; Wypasek, Christian J.) Dispersion modeling and simulation in subsurface contaminant transport. (English summary) **99h:86006**
Canuto, Enrico (*with* Donati, Francesco; Vallauri, Maurizio) Manufacturing algebra: a new mathematical tool for discrete-event modelling of manufacturing systems. (*see* **99g:93002**)
Caramanis, Michael C. *see* **Veatch, Michael H.**
Chen, Jie^4 Frequency-domain tests for validation of linear fractional uncertain models. (English summary) **99c:93030**
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Cicortaş, Alexandru Conservative simulation for discrete event systems. (English and Lithuanian summaries)
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Dudley Ward, Nicholas F. (*with* Partington, Jonathan R.) A construction of rational wavelets and frames in Hardy-Sobolev spaces with applications to system modeling. (English summary) **99i:42061**
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Fasoli, Maria Alessandra Finite-memory systems. (English summary) **99e:93044**
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— ★ Mathematics in industrial problems. Part 10. (English summary) **99g:00028**
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Garcia, Humberto E. (*with* Ray, Asok) State-space supervisory control of reconfigurable discrete event systems. (English summary)
Gawthrop, P. J. (*with* Ballance, D. J.) Symbolic computation for manipulation of hierarchical bond graphs. (*see* **99h:93005**)
Gollee, H. (*with* Hunt, K. J.) Nonlinear modelling and control of electrically stimulated muscle: a local model network approach. (English summary)
(Hallefjord, Åsa) *see* **Modelling: in memory of Åsa Hallefjord, 99e:90003**
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Hillerström, Gunnar (*with* Sternby, Jan) Robustness properties of repetitive controllers. (English summary)
Hori, Noriyuki *see* **Comeau, A. Raymond, 99m:93061**
Hou, Xue Zhang (*with* Tsui, Sze-Kai) A mathematical model for control of flexible robot arms. (*see* **99k:93007**)
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Ivanov, P. M. ★ Алгебраическое моделирование сложных систем. (Russian. English and Russian summaries) [Algebraic modeling of complex systems] **99a:68057**
(Ivanov, P. S.) *see* **Emel'yanov, S. V.; et al., 99a:93040**
Ivanov, Yu. E. (*with* Bublik, G. F.) Analysis of discretization methods for continuous dynamical systems in modeling and control problems. (Russian. English, Russian and Ukrainian summaries)
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Ji, Seunghwan *see* **Park, Minkee; et al.**
Kadirkamanathan, V. *see* **Liu, Guo Ping; et al.**
Karampetakis, N. P. (*with* Pugh, A. C.; Hayton, G. E.) Notes on a hierarchical theory of systems and applications. (English summary) **99c:93001**
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Liu, Guo Ping (*with* Kadirkamanathan, V.; Billings, S. A.) Predictive control for non-linear systems using neural networks. (English summary)
Lysogor, V. N. (*with* Sokol, V. D.) Modeling of the two-level control of a multistage dynamic technological process. (Russian. English, Russian and Ukrainian summaries)
Meerschaert, Mark M. ★ Mathematical modeling. (English summary) **99k:00019**
Melamed, Benjamin *see* **Rubinstein, Reuven Y., 99c:90055**
Milocco, Rubén H. (*with* De Doná, José A.) Optimal parallel model solutions using the polynomial approach. (English summary)
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Rahmani, A. (*with* Sueur, C.; Dauphin-Tanguy, G.) Approche des bond graphs pour l'analyse structurelle des systèmes linéaires. (French summary) [Bond graph approach for the structural analysis of linear systems] **99b:94069**
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Veatch, Michael H. (*with* Caramanis, Michael C.) Optimal average cost manufacturing flow controllers: convexity and differentiability. (English summary)
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Wang, Jihong (*with* Pu, Junsheng; Moore, Philip R.; Zhang, Zongmao) Modelling study and servo-control of air motor systems. (English summary)
Weiland, Siep (*with* Stoorvogel, Anton A.; de Jager, Bram) A behavioral approach to the $\mathscr{H}_\infty$ optimal control problem. (English summary) **99c:93039**
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Zampieri, Sandro (*with* Mitter, Sanjoy K.) Linear systems over Noetherian rings in the behavioural approach. (English summary) **99h:93032**
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93A99 None of the above, but in this section

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Hayashi, Kenichiro (*with* Otsubo, Akifumi; Murakami, Shuta; Maeda, Mikio) Realization of nonlinear and linear PID controls using simplified indirect fuzzy inference method. (English summary)
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Otsubo, Akifumi *see* **Hayashi, Kenichiro; et al.**

93Bxx Controllability, observability, and system structure

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Chen, Shan Ben *see* **Chen, Yang Zhou; et al.**
Chen, Yang Zhou (*with* Chen, Shan Ben; Liu, Jia Qi) The frequency theorem (Kalman-Yakubovich lemma) in control theory. (Chinese. English and Chinese summaries)
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93B03 Attainable sets

Achhab, M. E. (*with* Wertz, V.) On reachable sets for a class of nonlinear systems with constraints. (English summary) **99k:93012**
Ancona, Fabio (*with* Marson, Andrea) On the attainable set for scalar nonlinear conservation laws with boundary control. (English summary) **99h:93008**
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Bodson, Marc *see* **Stephan, Jennifer; et al., 99k:93014**
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Chernous'ko, Feliks Leonidovich Ellipsoidal approximation of the attainability sets of a linear system with an uncertain matrix. (Russian. Russian summary) **99e:93003**
Figurina, T. Yu. Construction of reachable domains of a mechanical system with a small parameter. (Russian. Russian summary)
Kamyshova, G. N. Control of a differential system generated by the Loewner differential equation. (Russian. Russian summary)
Krasoń, Ewa The diameter of the reachability set for a 2-D continuous-discrete linear system with disturbances. (English summary) **99e:93004**

Krishchenko, A. P. On the structure of attainability sets of affine systems. (Russian. Russian summary) **99a:93009**
Kuntsevich, V. M. (*with* Pshenichnyĭ, B. N.) Ivariant and stationary sets of nonlinear discrete systems under bounded perturbations. (Russian. English, Russian and Ukrainian summaries)
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Narmanov, A. Ya. On the dependence of the controllability set on the target point. (Russian. Russian summary) **99k:93013**
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Rumchev, Ventseslav G. (*with* Anstee, Richard P.) Asymptotic reachable sets for discrete-time positive linear systems. (English summary)
Stephan, Jennifer (*with* Bodson, Marc; Lehoczky, John) Calculation of recoverable sets for systems with input and state constraints. (English summary) **99k:93014**
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Bale, Ramesh *see* **Kieffer, Jonathan Charles**
Bonneuil, Noël (*with* Saint-Pierre, Patrick) Domaine de victoire et stratégies viables chez les pêcheurs décrits par l'anthropologue Fredrik Barth. (English and French summaries) [Viable strategies among fishermen analyzed by the anthropologist Fredrik Barth] **99h:49002**
Borisenok, S. V. Application of the method of convexification to find a multivalued integral. (English summary) **99j:49062**
Chentsov, A. G. On the universal asymptotics of admissible sets under relaxation of integral constraints and its representation in the class of finitely additive measures. (Russian) **99c:49006**
Kieffer, Jonathan Charles (*with* Bale, Ramesh) Walking viability and gait synthesis for a novel class of dynamically-simple bipeds. (English summary)
Kostousova, E. K. State estimation for dynamic systems via parallelotopes: optimization and parallel computations. (English summary)
Kuntsevich, V. M. (*with* Pshenichnyĭ, B. N.) Minimal invariant sets of discrete dynamical systems with a stable linear part. (Russian. English, Russian and Ukrainian summaries) **99d:93048**
Lawson, Jimmie D. Geometric control and Lie semigroup theory. (English summary) **99j:93025**
Lempio, Frank (*with* Vel'ov, Vladimir M.) Discrete approximations of differential inclusions. (English summary) **99j:49068**
Nikol'skiĭ, M. S. On the estimation of the attainability set from below for a nonlinear controlled plant. (Russian. Russian summary) **99j:49040**
Pshenichnyĭ, B. N. *see* **Kuntsevich, V. M., 99d:93048**
Pulvirenti, G. (*with* Santagati, G.; Villani, Alfonso) Distributed-parameter control processes in unbounded sets. Control problems. (Italian. English summary) **99a:49011**
Quincampoix, Marc (*with* Vel'ov, Vladimir M.) Viability with a target: theory and applications. (English summary) **99k:49009**
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Slavov, Iordan The optimal value of singularly perturbed Mayer's problem is Hölderian. (English summary) **99j:49057**
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Normand-Cyrot, D. *see* **Califano, C.; et al., 99j:93049**
Osetinskiĭ, N. I. *see* **Vainstein, F. S., 99f:93031**
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Tian, Ming (*with* Tao, Gang) Adaptive dead-zone compensation for output-feedback canonical systems. (English summary)
Vainstein, F. S. (*with* Osetinskiĭ, N. I.) Classification of systems under state and output transformations. **99f:93031**
Van der Woude, J. W. A graph-theoretic method for computing a formal representation of the largest controlled invariant subspace of a structured system. (English summary)
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93B11 System structure simplification

Anderson, Brian D. O. (*with* Chongsrid, K.; Limebeer, D. J. N.; Hara, Shinji) Direct reduced order discretization of continuous-time controller. (English summary) (*see* **99k:93005**)
Andersson, Lennart (*with* Rantzer, Anders; Beck, Carolyn) Model comparison and simplification. (English summary) (*see* **99k:93005**)
Bacon, D. W. *see* **Guay, Martin; et al.**
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Deistler, M. *see* **Heij, C.; et al., 99c:93016**
Diab, Mahmoud (*with* Liu, Wan Quan; Sreeram, V.) A new approach for frequency weighted L_2 model reduction of discrete-time systems. (English summary) **99e:93012**
Do Cong Khanh (*with* Nguyen Minh Hang) Explicit cascade decompositions of unitary systems. (English summary) **99m:93014**
Gilat, T. *see* **Halevi, Yoram; et al., 99j:93017**
Grigoriadis, Karolos M. L_2 and $L_2 - L_\infty$ model reduction via linear matrix inequalities. (English summary)
Guay, Martin (*with* McLellan, P. J.; Bacon, D. W.) A condition for dynamic feedback linearization of control-affine nonlinear systems. (English summary)
Halevi, Yoram (*with* Zlochevsky, A.; Gilat, T.) Parameter-dependent model order reduction. (English summary) **99j:93017**
— (*with* Raskin, Natalya) Discrete-time frequency weighted model reduction and application to sampled-data models. (English summary)
Hara, Shinji *see* **Anderson, Brian D. O.; et al., (99k:93005)**
Heij, C. (*with* Scherrer, Wolfgang; Deistler, M.) System identification by dynamic factor models. (English summary) **99c:93016**
Lam, James (*with* Yang, Guang-Hong) Balanced model reduction of symmetric composite systems. (English summary)
— *see also* **Zhang, Li Qian², 99j:93018**
Limebeer, D. J. N. *see* **Anderson, Brian D. O.; et al., (99k:93005)**
Liu, Wan Quan (*with* Sreeram, V.; Teo, Kok Lay) Model reduction for state-space symmetric systems. (English summary) **99d:93008**
— *see also* **Diab, Mahmoud; et al., 99e:93012**
Liu, Xiao Ping² Input-output decoupling of linear time-varying singular systems. (English summary)
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Teo, Kok Lay *see* **Liu, Wan Quan; et al., 99d:93008**
Wortelboer, Pepijn M. R. (*with* Steinbuch, Maarten; Bosgra, Okko H.) Iterative model and controller reduction using closed-loop balancing, with application to a compact disc mechanism. (English summary) (*see* **99k:93005**)
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Zhang, Li Qian² (*with* Lam, James) Optimal weighted L_2 model reduction of delay systems. (English summary) **99j:93018**
Zlochevsky, A. *see* **Halevi, Yoram; et al., 99j:93017**

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Aldhaheri, Rabah W. Decomposition of two-time-scale linear systems via the relevant eigenspace. (English summary) **99a:93066**
Aranda-Bricaire, Eduardo (*with* Hirschorn, Ronald M.) Equivalence of nonlinear systems to prime systems under generalized output transformations. (English summary) **99g:93020**
Bandyopadhyay, B. (*with* Unbehauen, Heinz; Patre, B. M.) A new algorithm for compensator design for higher-order system via reduced model. (English summary)
Barbot, J.-P. (*with* Monaco, Salvatore; Normand-Cyrot, D.) Quadratic forms and approximate feedback linearization in discrete time. (English summary)
Cohen, Agnès (*with* Halevi, Yoram) Reduced-order observer for systems with piecewise constant inputs. (English summary)

Diab, Mahmoud (*with* Sreeram, V.; Liu, Wan Quan) Frequency-weighted model reduction via quasi-Kalman decomposition. (English summary) **99j:93101**
Feng, Chun Bo *see* **Guo, Lei[1]; et al., 99b:93028**
Guo, Lei[1] (*with* Xin, Xin; Feng, Chun Bo) An LMI-based unified approach to reduced-order controller design. (English summary) **99b:93028**
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Ivanov, P. M. ★ Алгебраическое моделирование сложных систем. (Russian. English and Russian summaries) [Algebraic modeling of complex systems] **99a:68057**
(Kavranoğlu, Davut) *see* **Controller reduction and system approximation, 99k:93005**
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Items listed otherwise than by author

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Controller reduction and system approximation ★ Controller reduction and system approximation. **99k:93005**

93B12 Variable structure systems

Alleyne, Andrew A variable structure gradient adaptive algorithm for a class of dynamical systems. (English summary) **99e:93013**
Bartolini, Giorgio (*with* Ferrara, Antonella; Usai, Elio) Applications of a sub-optimal discontinuous control algorithm for uncertain second order systems. (English summary) **99a:93012**
— (*with* Ferrara, Antonella; Utkin, Vadim I.; Zolezzi, T.) A control vector simplex approach to variable structure control of nonlinear systems. (English summary) **99a:93013**
— (*with* Ferrara, Antonella) On the parameter convergence properties of a combined VS/adaptive control scheme during sliding motion. (English summary)
— (*with* Ferrara, Antonella; Giacomini, L.) A robust control design for a class of uncertain non-linear systems featuring a second-order sliding mode. (English summary) **99k:93031**
Cao, Yong-Yan (*with* Sun, You Xian) Comment on: "Eigenvalue placement in a specified sector for variable structure control systems" [Internat. J. Control **57** (1993), no. 5, 1021–1037; MR 93m:93022] by C. A. Woodham and A. S. I. Zinober. (English summary) **99h:93024**
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Chen, Xinkai (*with* Fukuda, Toshio) Computer-controlled continuous-time variable structure systems with sliding modes. (English summary) **99m:93015**
— (*with* Fukuda, Toshio) Variable structure system theory based disturbance identification and its applications. (English summary)
— (*with* Fukuda, Toshio) VSS theory-based disturbance estimation scheme for MIMO systems and its applications. (English summary)
— (*with* Fukuda, Toshio) Adaptive quasi-sliding mode control for discrete-time multivariable systems. (English summary) **99k:93032**
Chung, Steven Ching-Yei (*with* Lin, Chun-Liang) A general class of sliding surface for sliding mode control. (English summary) **99c:93017**
— (*with* Lin, Chun-Liang) A transformed Luré problem for sliding mode control and chattering reduction. (English summary)
Corradini, M. Letizia (*with* Orlando, Giuseppe) Variable structure control of discretized continuous-time systems. (English summary)
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Edwards, Christopher (*with* Spurgeon, Sarah K.) Robust output tracking using a sliding-mode controller/observer scheme. (English summary)
— (*with* Spurgeon, Sarah K.) Compensator based output feedback sliding mode controller design. (English summary) **99j:93019**
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Ferrer Llop, Josep (*with* Puerta Sales, Fernando) Global block-similarity and pole assignment of class C^p. (English summary) **99d:93009**
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Gao, Cun Chen *see* **Wang, Li; et al.**
Giacomini, L. *see* **Bartolini, Giorgio; et al., 99k:93031**
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Hanczyc, Eric M. (*with* Palazoglu, Ahmet) Use of symmetry groups in sliding mode control of nonlinear distributed parameter systems. (English summary)
Haskara, İbrahim (*with* Özgüner, Ümit; Utkin, Vadim I.) On sliding mode observers via equivalent control approach. (English summary) **99h:93025**
Hedrick, J. Karl *see* **Stotskiĭ, A. A.; et al., 99c:93020** *and* **Won, Mooncheol**
Hsu, Kou-Cheng Decentralized variable-structure control design for uncertain large-scale systems with series nonlinearities. (English summary)
Hsu, Liu Smooth sliding control of uncertain systems based on a prediction error. (English summary) **99a:93014**
— (*with* Lizarralde, Fernando) Comments and further results regarding: "On variable structure output feedback controllers" [IEEE Trans. Automat. Control **41** (1996), no. 11, 1691–1693] by C. M. Kwan. (English summary)
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Johnson, Russell A. (*with* Nistri, Paolo) On the dynamical behavior of the approximate equivalent control in sliding manifold systems. (English summary) **99m:93016**
Kwan, C.-M. Author's reply to: "Comments and further results regarding: 'On variable structure output feedback controllers'" [IEEE Trans. Automat. Control **43** (1998), no. 9, 1338–1340] by L. Hsu and F. Lizarralde.
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Li, Yun (*with* Ng, Kim Chwee; Murray-Smith, David J.; Gray, Gary J.; Sharman, Ken C.) Genetic algorithm automated approach to the design of sliding mode control systems. (English summary)
Lian, Kuang-Yow (*with* Lin, Chia-Ru) Sliding-mode motion/force control of constrained robots. (English summary)
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Lu, Xiao Yun[2] (*with* Spurgeon, Sarah K.) A new sliding mode approach to asymptotic feedback linearisation with application to the control of non-flat systems. (English summary) **99f:93018**
— *see also* **Spurgeon, Sarah K., (99h:93005)**
Lu, Yu-Sheng (*with* Chen, Jian-Shiang) Design of a global sliding-mode controller for a motor drive with bounded control. (English summary)
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Shtessel', Yu. B. Nonlinear nonminimum phase output tracking via dynamic sliding manifolds. (English summary) **99c:93019**
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— (*with* Spurgeon, Sarah K.) Robust sliding mode control using measured outputs. (English summary) **99h:93026**
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Wang, Li (*with* Gao, Cun Chen; Liu, Yong Qing) Sliding mode variable structure control of neutral interconnected control systems with delay. (Chinese. English and Chinese summaries)
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Won, Mooncheol (*with* Hedrick, J. Karl) Multiple-surface sliding control of a class of uncertain nonlinear systems. (English summary)
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Wu, Shang-Teh On digital high-gain and sliding-mode control. (English summary)
Wu, Yuqiang (*with* Yu, Xing-Huo; Man, Zhihong) Terminal sliding mode control design for uncertain dynamic systems. (English summary) **99e:93015**
— *see also* **Yu, Xing-Huo**
Xie, Sheng Li (*with* Xie, Zhen Dong; Liu, Yong Qing) A no-delay variable structure controller for a control system with delay. (Chinese. English and Chinese summaries)
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— (*with* Man, Zhihong) Multi-input uncertain linear systems with terminal sliding-mode control. (English summary) **99a:93015**
— (*with* Wu, Yuqiang) Adaptive terminal sliding mode control of uncertain nonlinear systems—backstepping approach. (English and Chinese summaries)
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Ahmed-Ali, Tarek (*with* Lamnabhi-Lagarrigue, Françoise) Sliding observer-controller design for uncertain triangular nonlinear systems. (English summary)
Bartolini, Giorgio (*with* Ferrara, Antonella; Pisano, Alessandro; Usai, Elio) Adaptive reduction of the control effort in chattering-free sliding-mode control of uncertain nonlinear systems. (English summary) **99c:93049**
— (*with* Ferrara, Antonella; Punta, E.; Usai, Elio) Chattering elimination in the hybrid control of constrained manipulators via first/second order sliding mode control. (English summary)
Bonivento, C. (*with* Sandri, M.; Zanasi, Roberto[2]) Discrete variable-structure integral controllers. (English summary) **99a:93039**
Chan, Chok You Discrete-time adaptive sliding mode control of a linear system in state-space form. (English summary)
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Glazos, Michael P. (*with* Hui, Stefen; Żak, Stanisław H.) Sliding modes in solving convex programming problems. (English summary) **99d:90113**
Hsu, Kou-Cheng Adaptive variable structure control design for uncertain time-delayed systems with nonlinear input. (English summary) **99d:93040**
Hu, Yueming *see* **Li, Qingxiang; et al.**
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Levant, Arie Robust exact differentiation via sliding mode technique. (English summary) **99a:93036**
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Luk'yanov, A. G. A block method for the synthesis of nonlinear systems on sliding regimes. (Russian. Russian summary) **99m:93038**
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Volosov, V. V. (*with* Tyutyunnik, L. I.) Development and investigation of robust algorithms for guaranteed ellipsoidal estimation of the state of multidimensional linear discrete dynamical systems. I. (Russian. English, Russian and Ukrainian summaries) **99d:93072**
— (*with* Tyutyunnik, L. I.) Development and investigation of robust algorithms for guaranteed ellipsoidal estimation of the state of multidimensional linear discrete dynamical systems. II. (Russian. English, Russian and Ukrainian summaries) **99k:93092**
Wang, Mao *see* **Xu, Jian-Xin; et al.**
Xu, Jian Min (*with* Zhu, Bei Bei; Zhou, Qi Jie) A robust force/position control method for a class of constrained flexible robots. (Chinese. English and Chinese summaries)
Xu, Jian-Xin (*with* Lee, Tong-Heng; Wang, Mao; Yu, Xing-Huo) Design of variable structure controllers with continuous switching control. (English summary)
Yanushevskiĭ, R. T. A class of nonlinear time-delay systems and related optimal problems. (English summary) **99k:49082**
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93B15 Realizability of systems from input-output data

Allen, Brian M. (*with* Rosenthal, Joachim) A matrix Euclidean algorithm induced by state space realization. (English summary) **99k:93033**
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Azou, S. (*with* Vilbe, P.; Calvez, L. C.) Balanced realization using an orthogonalization procedure and modular polynomial arithmetic. (English summary) **99d:93010**
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Estruch, Vicente D. (*with* Hernández, Vicente G.; Sánchez, Elena; Coll, Carmen) Forward/backward periodic realizations of nonproper rational matrices. (English summary) **99e:93016**
— (*with* Hernández, Vicente G.; Sánchez, Elena; Coll, Carmen) Forward/backward periodic realizations of nonproper rational matrices. (English summary) **99f:93021**
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Förster, K.-H. (*with* Nagy, Béla) On nonnegative realizations of rational matrix functions and nonnegative input-output systems. (English summary) **99f:93022**
Gałkowski, Krzysztof State-space realizations of multi-input multi-output systems—elementary operations approach. (English summary)
Glüsing-Lüerßen, Heide Realization of rational matrices by singular systems. (English summary) **99g:93019**
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Linard, Natasha (*with* Anderson, Brian D. O.; De Bruyne, Franky) Coprimeness properties of nonlinear fractional system realizations. (English summary) **99e:93017**
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Errata:
"Comments on: 'Mixed L^∞/H_∞ suboptimal controllers for SISO continuous time systems'" Correction to: "Comments on: 'Mixed L^∞/H_∞ suboptimal controllers for SISO continuous time systems'" [IEEE Trans. Automat. Control **43** (1998), no. 9, 1285]; by B. Bernhardsson and H. Panagopoulos.

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Zhu, Ge (*with* Ge, S. S.) A quasi-tracking approach for finite-time control of a mass-beam system. (English summary)

Zuazua, Enrique Null controllability of the heat equation in thin domains. (English summary) **99i:93010**
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Dauer, Jerald P. *see* **Balachandran, Krishnan; et al., 99f:93008**
Dymkov, M. P. Optimal control of a discrete Volterra system by a quadratic performance functional. (Russian. English and Russian summaries) **99a:49042**

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Balas, Mark J. Exponentially stable feedback control of discrete-time nonlinear distributed parameter systems on Banach spaces. (English summary) **99a:93053**
Borukhov, V. T. (*with* Gaĭshun, I. V.) Factorization of transfer operators and the structure of infinite zeros of infinite-dimensional linear dynamical systems. (Russian. English and Russian summaries) **99k:93057**
Curtain, Ruth F. (*with* Logemann, Hartmut; Townley, Stuart; Zwart, H. J.) Well-posedness, stabilizability, and admissibility for Pritchard-Salamon systems. (English summary) **99e:93040**
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Aniculăesei, Gh. (*with* Aniţa, Sebastian[2]) H_∞-control problems unbounded observation: the hyperbolic case. (English summary) **99g:93024**
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— (*with* Sakthivel, R.) Controllability of delay integrodifferential systems in Banach spaces. (English summary) **99j:93006**
— (*with* Park, Jong Yeoul; Anthoni, S. Marshal) Controllability of second order semilinear Volterra integrodifferential systems in Banach spaces. (English summary) **99m:93004**
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Borukhov, V. T. Grassmann manifolds and pairs of linear relations in the theory of descriptor dynamical systems. (Russian. Russian summary) **99m:93049**
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Otlăcan, Eufrosina La différentielle Fréchet-Marinescu dans la modélisation des systèmes dynamiques. (French and Romanian summaries) [The Fréchet-Marinescu differential in the modelling of dynamical systems] **99k:93011**
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Grauel, A. (*with* Ludwig, L. A.) Construction of differentiable membership functions. (English summary) (*see* **99k:93004**)
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Willems, Jan C. *see* **Rapisarda, Paolo, 99b:93027**

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93C62 Digital systems

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Shieh, Leang-San (*with* Wang, Wei Min[2]; Zheng, Jing-Bo) Robust control of sampled-data uncertain systems using digitally redesigned observer-based controllers. (English summary)
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93C70 Time-scale analysis and related topics

Agarwal, Ramesh K. *see* **Shi, Peng; et al., 99f:93096**
Aldhaheri, Rabah W. Decomposition of two-time-scale linear systems via the relevant eigenspace. (English summary) **99a:93066**
Bernussou, Jacques *see* **Garcia, Germain; et al., 99j:93065**
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Lions, Jacques-Louis Controllability of distributed systems and singular perturbations. (English summary) **99a:93068**
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Drăgan, Vasile The asymptotic behavior of the stability radius for a singularly perturbed linear system. (English summary) **99g:93059**
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93C73 Perturbations in control systems

Chen, Xinkai (*with* Fukuda, Toshio) Implicit state estimators and their application to pole assignment controllers for systems with uncertainties. (English summary) **99c:93074**
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93C80 Frequency-response methods

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— (*with* Lang, Zi-Qiang) Truncation of nonlinear system expansions in the frequency domain. (English summary)
— *see also* **Zhang, H., 99g:93053** *and* **Lang, Zi-Qiang**
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93C83 Control problems involving computers (process control, etc.)

Agrawal, Anil Kumar[3] (*with* Yang, Jann N.; Wu, Jong-Cheng) Non-linear control strategies for Duffing systems. (English summary) **99h:93064**
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Thompson, David F. (*with* Pruyn, John S.) On characterizing sensitivity-based and traditional formulations for quantitative feedback theory. (English summary)
Tits, André L. (*with* Balakrishnan, Venkataramanan; Lee, Li) Robustness under bounded uncertainty with phase information. (English summary) **99m:93026**
Tomei, Patrizio *see* **Marino, Riccardo; et al.**
Vandewalle, Joos *see* **Suykens, J. A. K.; et al., 99f:93108**
Wang, En Ping Robust stabilization of system with numeratoral factor perturbation. (English summary) **99d:93051**
Weiland, Siep *see* **Luo, Jian-san; et al., 99h:93061**
Wen, Changyun Robust adaptive control of proper systems. (English summary) **99i:93038**
Yin, Bin (*with* Zhao, Xiao Hui[2]; Feng, Chun Bo) Adaptive tracking control of time-varying systems. (Chinese. English and Chinese summaries)
Zhao, Xiao Hui[2] *see* **Yin, Bin; et al.**
Zhu, Quan Min *see* **Qin, Hua Shu; et al., 99k:70024**

93D22 Interrelations between stability problems and optimization problems

Items with secondary classifications in 93D22

Abdallah, Chaouki T. *see* **Haddad, Wassim M.; et al., 99f:93039**
Chellaboina, Vijaya-Sekhar *see* **Haddad, Wassim M.; et al., 99f:93039**
Fausz, Jerry L. *see* **Haddad, Wassim M.; et al., 99f:93039**
Haddad, Wassim M. (*with* Fausz, Jerry L.; Chellaboina, Vijaya-Sekhar; Abdallah, Chaouki T.) A unification between nonlinear-nonquadratic optimal control and integrator backstepping. (English summary) **99f:93039**

93D25 Input-output approaches

Ailon, Amit *see* **Gil', M. I., 99k:93085**
Gil', M. I. (*with* Ailon, Amit) The input-output version of Aizerman's conjecture. (English summary) **99k:93085**
Hotzel, Richard Some stability conditions for fractional delay systems. (English summary) **99i:93063**
Sontag, Eduardo D. Comments on integral variants of ISS. (English summary) **99j:93094**

Items with secondary classifications in 93D25

Fursov, A. S. *see* **Nosov, A. P., 99e:93068**
Nosov, A. P. (*with* Fursov, A. S.) Using asymptotic invariance methods for output stabilization of a class of uncertain systems with stable zero dynamics. **99e:93068**
Sandberg, Irwin W. A note on representation theorems for linear discrete-space systems. (English summary) **99j:93064**
Sule, V. R. Corrigendum: "Feedback stabilization over commutative rings: the matrix case" [SIAM J. Control Optim. **32** (1994), no. 6, 1675–1695; MR 95i:93129]. (English summary) **99e:93070**
Tsinias, J. Control Lyapunov functions, input-to-state stability and applications to global feedback stabilization for composite systems. (English summary) **99h:93090**
– Stochastic input-to-state stability and applications to global feedback stabilization. (English summary) **99j:93111**

93D30 Scalar and vector Lyapunov functions

Benvenuti, Luca *see* **Farina, Lorenzo, 99e:93074**
Farina, Lorenzo (*with* Benvenuti, Luca) Invariant polytopes of linear systems. (English summary) **99e:93074**
Retchkiman, Zvi (*with* Silva-Navarro, Gerardo) A vector Lyapunov function approach for the stabilization of nonlinear systems. (English summary) **99k:93086**
Silva-Navarro, Gerardo *see* **Retchkiman, Zvi, 99k:93086**

Items with secondary classifications in 93D30

Onishchenko, S. M. A generalized modal approach to problems of the synthesis of nonlinear stabilization systems. (Russian. English and Ukrainian summaries) **99c:93093**
Sontag, Eduardo D. Comments on integral variants of ISS. (English summary) **99j:93094**

93D99 None of the above, but in this section

Items with secondary classifications in 93D99

Başer, Ulviye (*with* Eldem, Vasfi) Almost diagonalization by dynamic output feedback with internal stability. (English summary) **99c:93036**
Chellaboina, Vijaya-Sekhar *see* **Haddad, Wassim M.; et al., 99m:49001**
Dowell, Earl H. *see* **Epureanu, Bogdan I., 99a:58138**
Eldem, Vasfi *see* **Başer, Ulviye, 99c:93036**
Epureanu, Bogdan I. (*with* Dowell, Earl H.) On the optimality of the Ott-Grebogi-Yorke control scheme. (English summary) **99a:58138**
Fausz, Jerry L. *see* **Haddad, Wassim M.; et al., 99m:49001**
Grujić, Ljubomir T. Exponential quality of time-varying dynamical systems: stability and tracking. **99a:93073**
Haddad, Wassim M. (*with* Fausz, Jerry L.; Chellaboina, Vijaya-Sekhar) Nonlinear controllers for nonlinear systems with input nonlinearities. (English summary) **99m:49001**
Jury, Eliahu I. The roles of Sylvester and Bezoutian matrices in the historical study of stability of linear discrete-time systems. (English summary) **99j:93003**
Leith, D. J. (*with* Leithead, W. E.) Gain-scheduled and nonlinear systems: dynamic analysis by velocity-based linearization families. (English summary) **99c:93050**
Leithead, W. E. *see* **Leith, D. J., 99c:93050**
Matignon, Denis Stability properties for generalized fractional differential systems. (English and French summaries) **99m:26008**
Zahreddine, Ziad Stability of differential equations via the theory of continued fraction expansions. (English summary) **99m:34118**

93Exx Stochastic systems and control

93E03 Stochastic systems, general

Albertini, Francesca (*with* Dai Pra, Paolo) Small parameter limit for discrete-time partially observed risk-sensitive control problems. (English summary) **99h:93095**
Boulet, Benoit (*with* Francis, Bruce Allen) Consistency of open-loop experimental frequency-response data with coprime factor plant models. (English summary) **99j:93095**
Byrnes, Christopher I. (*with* Lindquist, Anders) On the partial stochastic realization problem. (English summary) **99f:93129**
Cassandras, Christos G. *see* **Vázquez-Abad, Felisa J.; et al., 99a:93093**
Chambers, Marcus J. Discrete time representation of stationary and non-stationary continuous time systems. (English summary) **99h:93096**
Chen, Xue-Bo *see* **Stanković, Srdjan S.; et al., 99m:93096**
Costa, O. L. V. (*with* Kubrusly, Carlos S.) State feedback H_∞-control for discrete-time infinite-dimensional stochastic bilinear systems. (English summary) **99h:93097**
Dai Pra, Paolo *see* **Albertini, Francesca, 99h:93095**
Davison, Daniel E. (*with* Kabamba, Pierre T.; Meerkov, Semyon M.) Limitations of disturbance rejection in feedback systems with finite bandwidth. (English summary)
Deistler, M. *see* **Schachermayer, Walter, 99c:93099**
Drăgan, Vasile (*with* Halanay, Aristide; Stoica, Adrian) A small gain theorem for linear stochastic systems. (English summary) **99c:93098**
Francis, Bruce Allen *see* **Boulet, Benoit, 99j:93095**
Haddad, Abraham H. *see* **Tsai, Ching-Chih**
Halanay, Aristide *see* **Drăgan, Vasile; et al., 99c:93098**
Han, Zhi Gang *see* **Wang, Ling**
Julka, Vibhor *see* **Vázquez-Abad, Felisa J.; et al., 99a:93093**
Kabamba, Pierre T. *see* **Davison, Daniel E.; et al.**
Kashtanov, V. A. Discrete distributions in control problems. (English summary) **99g:93077**
Kubrusly, Carlos S. *see* **Costa, O. L. V., 99h:93097**
Lefebvre, Mario Solving an LQG homing problem via a different uncontrolled process. (English summary) **99i:93064**
Li, Zhu *see* **Martin, Clyde F.**
Lindquist, Anders *see* **Byrnes, Christopher I., 99f:93129**
Martin, Clyde F. (*with* Li, Zhu) An inverse problem of a linear dynamic system with noise. (English summary)
Mataušek, Miroslav R. *see* **Stanković, Srdjan S.; et al., 99m:93096**
Meerkov, Semyon M. *see* **Davison, Daniel E.; et al.**
Morozan, T. Parametrized Riccati equations for controlled linear differential systems with jump Markov perturbations. (English summary) **99d:93064**
Ovseevich, A. I. On equations of ellipsoids approximating attainable sets. (English summary) **99a:93092**
Perov, V. P. (*with* Shcherbakova, I. V.) ★ Статистическая динамика дискретных систем. (Russian. Russian summary) [Statistical dynamics of discrete systems] **99h:93098**
Rokityanskiĭ, D. Ya. Optimal ellipsoidal bounds for the reachable set of linear systems with an uncertain matrix. (Russian. Russian summary)
Sand, Jan-Åke Zeros of discrete-time spectral factors, and the internal part of a Markovian splitting subspace. (English summary) **99h:93099**
Schachermayer, Walter (*with* Deistler, M.) The set of observationally equivalent errors-in-variables models. (English summary) **99c:93099**
Shcherbakova, I. V. *see* **Perov, V. P., 99h:93098**
Šiljak, Dragoslav D. *see* **Stanković, Srdjan S.; et al., 99m:93096**
Stanković, Srdjan S. (*with* Chen, Xue-Bo; Mataušek, Miroslav R.; Šiljak, Dragoslav D.) Stochastic inclusion principle applied to decentralized automatic generation control. (English summary) **99m:93096**
Stoica, Adrian *see* **Drăgan, Vasile; et al., 99c:93098**
Tardelli, P. An approximation of stochastic control problems for jump processes. (Italian summary) **99i:93065**
Truman, Alan W. A subrate weighted minimum-variance control law. (English summary)
Tsai, Ching-Chih (*with* Haddad, Abraham H.) Averaging, aggregation and optimal control of singularly perturbed stochastic hybrid systems. (English summary)
Tsypkin, Yakov Zalmanovich Stochastic discrete systems with internal models. (Russian. English, Russian and Ukrainian summaries)
Vázquez-Abad, Felisa J. (*with* Cassandras, Christos G.; Julka, Vibhor) Centralized and decentralized asynchronous optimization of stochastic discrete-event systems. (English summary) **99a:93093**
Wang, Ling (*with* Han, Zhi Gang) Output tracking for a class of stochastic systems. (Chinese. English and Chinese summaries)
Wu, Huai Ning (*with* Xie, Kai Nian; You, Chang De) Robust state feedback control of stochastic systems. (Chinese. English and Chinese summaries)
Xie, Kai Nian *see* **Wu, Huai Ning; et al.**
Yamanaka, Kazuo On ARMA controllers in continuous-time feedback schemes. (English summary)
Yaz, Edwin Engin *see* **Yaz, Yvonne Ilke**
Yaz, Yvonne Ilke (*with* Yaz, Edwin Engin) On LMI formulations of some problems arising in nonlinear stochastic system analysis. (English summary)
You, Chang De *see* **Wu, Huai Ning; et al.**

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Astuti, Pudji (*with* McCarragher, Brenan J.) The stability of a class of discrete event systems using Markov chains. (English summary)
Barrett, J. Douglas (*with* Woodall, William H.) A simple probabilistic representation of the product-sum fuzzy logic controller. (English summary)
Biswas, Saroj K. Robust stabilization of linear systems in the presence of Gaussian perturbation of parameters. (English summary) **99g:93076**
Boulanger, Christophe Feedback stabilization of nonlinear stochastic systems by locally bounded controls. (English summary) **99k:93074**
Casdorph, Van *see* **Napolitano, Marcello R.; et al.**
Cassandras, Christos G. (*with* Dai, Liyi; Panayiotou, Christos G.) Ordinal optimization for a class of deterministic and stochastic discrete resource allocation problems. (English summary) **99e:93050**
Chen, Yangquan (*with* Wen, Changyun; Sun, Mingxuan) A robust high-order P-type iterative learning controller using current iteration tracking error. (English summary)
Dai, Liyi *see* **Cassandras, Christos G.; et al., 99e:93050**
Dai Pra, Paolo (*with* Meneghini, L.; Runggaldier, Wolfgang J.) Explicit solutions for multivariate, discrete-time control problems under uncertainty. (English summary) **99e:49029**
Eryilmaz, Bora *see* **Wilson, Bruce H.; et al.**
Fernández-Cara, Enrique (*with* Real Anguas, José) Remarks on the controllability of some stochastic partial differential equations. (English summary) **99d:93004**
– (*with* Garrido-Atienza, María José; Real Anguas, José) On the approximate controllability of a stochastic parabolic equation with a multiplicative noise. (English and French summaries) **99m:93005**
Ferrante, Augusto *see* **Michaletzky, György, 99g:93038**
Garrido-Atienza, María José *see* **Fernández-Cara, Enrique; et al., 99m:93005**
Gersch, Will (*with* Kitagawa, Genshiro) General state space modeling. (*see* **99b:93004**)

Hohzaki, Ryusuke (*with* Iida, Koji; Kiyama, Masaki) Randomized look strategy for a moving target when a search path is given. (English summary) **99k:90093**
Iida, Koji *see* **Hohzaki, Ryusuke; et al., 99k:90093**
Innocenti, Mario *see* **Napolitano, Marcello R.; et al.**
Isaev, I. Yu. (*with* Yavorskiĭ, I. N.) Component spectral analysis of signals with stochastic recurrence. (Russian. English, Russian and Ukrainian summaries)
Johnson, Russell A. (*with* Nerurkar, Mahesh) Controllability, stabilization and the regulator problem for random differential systems. (English summary) **99d:93005**
Kase, Wataru A design of pole assignment control systems for a discrete-time plant with white noise. (Japanese. English summary)
Keisler, H. Jerome Stochastic differential equations with extra properties. **99m:60079**
Kisielewicz, Michał Stochastic differential inclusions. (English summary) **99b:60099**
Kitagawa, Genshiro *see* **Gersch, Will, (99b:93004)**
Kiyama, Masaki *see* **Hohzaki, Ryusuke; et al., 99k:90093**
Kogan, Konstantin A continuous-time integrated model for discrete control of production flows in a multi-level bills of material environment. (English summary)
Lafortune, Stéphane *see* **Sampath, Meera; et al., 99j:90035**
Leonov, Sergei L. On the solution of an optimal recovery problem and its applications in nonparametric regression. (English summary) **99e:62051**
Li, Ning (*with* Zhang, Nai Yao) Structural analysis of typical fuzzy controllers using different fuzzy control inference methods. (Chinese. English and Chinese summaries)
Lindquist, Anders Recent progress on the partial stochastic realization problem. (English summary) (*see* **98k:93005**)
— (*with* Yakubovich, Vladimir A.) Optimal damping of forced oscillations in discrete-time systems by output feedback. (English summary) **99f:93063**
McCarragher, Brenan J. *see* **Astuti, Pudji**
Meneghini, L. *see* **Dai Pra, Paolo; et al., 99e:49029**
Mercan, H. Murat *see* **Wee, Hui-Ming**
Michaletzky, György (*with* Ferrante, Augusto) Splitting subspaces and acausal spectral factors. (English summary) **99g:93038**
Mohammed, Salah-Eldin A. Stochastic differential systems with memory: theory, examples and applications. **99k:60155**
Motyl, Jerzy Existence of solutions of set-valued Itô equation. (English summary) **99j:60098**
— Stochastic functional inclusion driven by semimartingale. (English summary) **99e:60143**
Napolitano, Marcello R. (*with* Casdorph, Van; Neppach, Charles; Naylor, Steve; Innocenti, Mario; Silvestri, Giovanni) Online learning neural architectures and cross-correlation analysis for actuator failure detection and identification. (English summary)
Naylor, Steve *see* **Napolitano, Marcello R.; et al.**
Neppach, Charles *see* **Napolitano, Marcello R.; et al.**
Nerurkar, Mahesh *see* **Johnson, Russell A., 99d:93005**
Owens, David H. *see* **Wood, Jeffrey James; et al., 99c:93028**
Panayiotou, Christos G. *see* **Cassandras, Christos G.; et al., 99e:93050**
Real Anguas, José *see* **Fernández-Cara, Enrique, 99d:93004** *and* **99m:93005**
Rogers, Eric *see* **Wood, Jeffrey James; et al., 99c:93028**
Runggaldier, Wolfgang J. *see* **Dai Pra, Paolo; et al., 99e:49029**
Sampath, Meera (*with* Lafortune, Stéphane; Teneketzis, Demosthenis) Active diagnosis of discrete-event systems. (English summary) **99j:90035**
Shafai, Bahram *see* **Wilson, Bruce H.; et al.**
Silvestri, Giovanni *see* **Napolitano, Marcello R.; et al.**
Sirotin, A. N. On the problem of bounded zero-controllability with probability 1 for linear autonomous systems with discrete time and a random transition matrix having a finite set of spectra. (Russian. Russian summary) **99e:93010**
Song, Dong-Ping (*with* Xing, Wei[2]; Sun, You Xian) Optimal service rate allocation policy of an unreliable manufacturing system with random demands. (English and Chinese summaries)
Sun, Mingxuan *see* **Chen, Yangquan; et al.**
Sun, You Xian *see* **Song, Dong-Ping; et al.**
Teneketzis, Demosthenis *see* **Sampath, Meera; et al., 99j:90035**
Vallée, Robert Evolution of uncertainty about the state of a dynamical system. (English summary)
Wee, Hui-Ming (*with* Mercan, H. Murat) Exponentially decaying inventory with partial back-ordering. (English summary)
Wen, Changyun *see* **Chen, Yangquan; et al.**
Wilson, Bruce H. (*with* Eryilmaz, Bora; Shafai, Bahram) An adaptive angular sweep algorithm for value set construction. (English summary)
Wood, Jeffrey James (*with* Rogers, Eric; Owens, David H.) Minimum lag descriptions and minimal Gröbner bases. (English summary) **99c:93028**
Woodall, William H. *see* **Barrett, J. Douglas**
Xing, Wei[2] *see* **Song, Dong-Ping; et al.**
Yakubovich, Vladimir A. *see* **Lindquist, Anders, 99f:93063**
Yavorskiĭ, I. N. *see* **Isaev, I. Yu.**
Zhang, Nai Yao *see* **Li, Ning**

93E05 Stochastic games, stochastic differential games [see also 90D15]

Bally, Vlad Construction of asymptotically optimal controls for control and game problems. (English summary) **99h:93100**
Lysogor, V. N. (*with* Sokol, V. D.) An optimal rule for stopping the control of a stochastic process of variable structure. (Russian. English, Russian and Ukrainian summaries)
Sokol, V. D. *see* **Lysogor, V. N.**

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Bagchi, Arunabha *see* **Ghosh, Mrinal K., 99k:90223**
Başar, Tamer Nash equilibria of risk-sensitive nonlinear stochastic differential games. (English summary) **99m:90174**
Chikrii, Arkadii A. (*with* Dzyubenko, Karen Georgievich) Bilinear Markov processes for searching for moving objects. (Russian. English, Russian and Ukrainian summaries) **99d:90063**
Dzyubenko, Karen Georgievich *see* **Chikrii, Arkadii A., 99d:90063**
Ghosh, Mrinal K. (*with* Bagchi, Arunabha) Stochastic games with average payoff criterion. (English summary) **99k:90223**
Hamadène, S. Backward-forward SDE's and stochastic differential games. (English summary) **99j:60085**
(Merinov, Igor E.) *see* **Vorotnikov, V. I., 99a:93002**
Ugrinovskiĭ, V. A. Robust H_∞ control in the presence of stochastic uncertainty. (English summary) **99i:93021**
Vorotnikov, V. I. ★ Partial stability and control. (English summary) **99a:93002**

93E10 Estimation and detection [see also 60G35]

Aggoun, Lakhdar (*with* Elliott, Robert J.; Moore, John Barratt) A measure change derivation of continuous state Baum-Welch estimators. (English summary) **99g:93078**
Aihara, Shin Ichi Consistency property of extended least-squares parameter estimation for stochastic diffusion equation. (English summary) **99f:93130**
Alessandri, A. (*with* Parisini, T.; Zoppoli, R.) Neural approximators for nonlinear finite-memory state estimation. (English summary)
Bai, Er-Wei (*with* Ye, Yinyu) Constrained logarithmic least squares in parameter estimation. (English summary)
Biryukov, M. N. Statistical moments of nonparametric sequential algorithms. (Russian. Russian summary) **99m:93097**
Bodin, Per (*with* Wahlberg, Bo) A frequency response estimation method based on smoothing and thresholding. (English summary) **99d:93065**
Borkar, Vivek S. (*with* Mundra, S. M.) Bayesian parameter estimation and adaptive control of Markov processes with time-averaged cost. (English summary) **99d:93066**
Busawon, K. K. (*with* Saif, Mehrdad) An observer for a class of disturbance driven nonlinear systems. (English summary)
Cedervall, Mats *see* **Sorelius, Joakim; et al., (99b:93004)**
Chandrasekaran, S. (*with* Golub, Gene H.; Gu, Ming; Sayed, Ali H.) Parameter estimation in the presence of bounded data uncertainties. (English summary) **99a:93094**
Chen, Xiao Dong[2] (*with* Shi, Xiao Ping[2]; Ma, Guang Fu; Wang, Zi Cai) The least maximum-error parameter estimation method for linear systems. (Chinese. English and Chinese summaries)
Chong, Edwin K. P. *see* **Wang, I-Jeng**
Dai, Guan Zhong *see* **Gao, Jiang; et al.**
Daniel-Berhe, S. (*with* Unbehauen, Heinz) An approach for estimating abruptly changing parameters of integrable nonlinear continuous-time systems. (English summary)
Deistler, M. *see* **Scherrer, Wolfgang, 99f:93131**
Demin, N. S. (*with* Sushko, T. V.; Yakovleva, A. V.) Generalized inverse extrapolation of stochastic processes from a set of continuous and discrete observations with memory. (Russian. Russian summary)
Đurović, Željko M. (*with* Kovačević, Branko D.) Robust estimation with unknown noise statistics. (English summary)
Du, Chun Ling (*with* Yang, Cheng Wu) Optimal state estimation for a general model of 2-D linear discrete systems. (Chinese. English and Chinese summaries)
Duan, Ji An (*with* Yu, Lie; Xie, You Bai) Recursive time-domain method of modal identification. (Chinese. Chinese summary)
Elliott, Robert J. (*with* Moore, John Barratt) A martingale Kronecker lemma and parameter estimation for linear systems. (English summary) **99h:93101**
— *see also* **Aggoun, Lakhdar; et al., 99g:93078**
Ergon, Rolf On primary output estimation by use of secondary measurements as input signals in system identification. (English summary)
Freiling, Gerhard (*with* Lee, S.-R.; Jank, Gerhard) Coupled matrix Riccati equations in minimal cost variance control problems. (English summary) **99m:93098**
Fukushima, Hiroaki *see* **Sugie, Toshiharu**
Gao, Jiang (*with* Hu, Bao Sheng; Dai, Guan Zhong) Frequency-domain properties applied to optimal estimation and smoothing of systems involving model mismatches. (Chinese. English and Chinese summaries)
García-Ligero, M. J. (*with* Hermoso Carazo, Aurora; Linares Pérez, Josefa) Least squared estimation for distributed parameter systems with uncertain observations. I. Linear prediction and filtering. (English summary) **99e:93075**
Gerencsér, László On fixed gain recursive estimation processes. (English summary) **99h:93102**
Giannakopoulos, P. K. *see* **Lainiotis, D. G.; et al.**
Golovan, A. A. (*with* Parusnikov, N. A.) On a relationship between the concept of stochastic measure of estimability and singular decompositions of matrices. (Russian. Russian summary) **99j:93096**
Gol'tsov, A. S. Estimation of the state of nonlinear dynamical systems by an asymptotic method. (Russian. Russian summary) **99m:93099**
Golub, Gene H. *see* **Chandrasekaran, S.; et al., 99a:93094**
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Hu, Bao Sheng *see* **Kang, Zheng Jiu; et al.** *and* **Gao, Jiang; et al.**
Ishihara, Tadashi Dual control theory. (Japanese)
Jank, Gerhard *see* **Freiling, Gerhard; et al., 99m:93098**
Kang, Zheng Jiu (*with* Shi, Yi Ming; Hu, Bao Sheng) A parallel algorithm for recursive total least squares parameter estimation. (Chinese. English and Chinese summaries)
Karabutov, N. N. Formalization of constraints under uncertainty and constrained design of adaptive observers for dynamic systems. (English summary) (*see* **99b:93002**)
Katsikas, S. K. *see* **Lainiotis, D. G.; et al.**
Koshaev, D. A. Comparison of lower bounds of accuracy in problems of nonlinear estimation. (Russian. Russian summary)
Kostousova, E. K. State estimation for dynamic systems via parallelotopes: optimization and parallel computations. (English summary)
Kovačević, Branko D. *see* **Đurović, Željko M.**
Kravaris, Costas *see* **Soroush, Masoud**

Kulkarni, Sanjeev R. (*with* Posner, S. E.) Nonparametric output prediction for nonlinear fading memory systems. (English summary) **99j:93097**
Lainiotis, D. G. (*with* Giannakopoulos, P. K.; Katsikas, S. K.) Estimation for linear systems with non-Gaussian initial state: centralized and decentralized partitioning algorithms. (English summary)
Larimore, Wallace E. Canonical variate analysis in control and signal processing. (*see* **99b:93004**)
Lee, S.-R. *see* **Freiling, Gerhard; et al., 99m:93098**
Li, Weihua (*with* Xiao, Deyun) Sliding window delta operator-based adaptive lattice filters. (English and Chinese summaries)
Liang, Xue Bin (*with* Wu, Li De; Yu, Jun) Segmenting and estimating multiple 3-D rigid motions from 2-D point correspondences. (Chinese. English and Chinese summaries)
Linares Pérez, Josefa *see* **García-Ligero, M. J.; et al., 99e:93075**
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Miyoshi, Naoto Gradient estimation for stochastic discrete event systems by perturbation analysis. (Japanese) (*see* **99g:93006**)
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Mundra, S. M. *see* **Borkar, Vivek S., 99d:93066**
Nakonechnyĭ, A. G. Minimax estimation of solutions of quasilinear stochastic equations. (Russian. English, Russian and Ukrainian summaries)
Newlin, Matthew P. (*with* Smith, Roy S.) A generalization of the structured singular value and its application to model validation. (English summary) **99e:93076**
Nikias, Chrysostomos *see* **Shen, Jun, 99k:93087**
Novikov, P. V. *see* **Zubov, A. G.; et al.**
Ou, Wen *see* **Wang, Wen Zheng; et al.**
Parisini, T. *see* **Alessandri, A.; et al.**
Parusnikov, N. A. *see* **Golovan, A. A., 99j:93096**
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— *see also* **Aguirre, Luis A.; et al., 99f:93137**
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Benjelloun, K. (*with* Boukas, El-Kébir) Mean square stochastic stability of linear time-delay system with Markovian jumping parameters. (English summary) **99g:93082**
Boukas, El-Kébir (*with* Shi, Peng) Stochastic stability and guaranteed cost control of discrete-time uncertain systems with Markovian jumping parameters. (English summary) **99j:93110**
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Chisci, L. (*with* Lombardi, A.; Mosca, Edoardo; Rossiter, J. A.) State-space approach to stabilizing stochastic predictive control. (English summary)
Deng, Hua (*with* Krstić, Miroslav) Output-feedback stochastic nonlinear stabilization. (English summary)
Florchinger, Patrick New results on universal formulas for the stabilization of stochastic differential systems. (English summary) **99b:93048**
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Pham Tran Nhu Mean square exponential stability under Markov disturbances: inclusion cases. (English summary)
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Florchinger, Patrick Adaptive stabilization of nonlinear stochastic systems. (English summary) **99e:60133**
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Altman, Eitan (*with* Koole, Ger) On submodular value functions and complex dynamic programming. (English summary) **99g:90102**
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93E30 Computer simulations of stochastic systems

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(Yamamoto, Yutaka) *see* **Learning, control and hybrid systems**, **99g:93003**

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Bangalore ★ Learning, control and hybrid systems. **99g:93003**
Festschrift:
Francis, Bruce Allen ★ Learning, control and hybrid systems. **99g:93003**
Vidyasagar, Mathukumalli ★ Learning, control and hybrid systems. **99g:93003**
Learning, control and hybrid systems ★ Learning, control and hybrid systems. **99g:93003**
Learning theory ★ Learning theory. **99b:93003**
Lecture Notes in Control and Information Sciences ★ Learning, control and hybrid systems. **99g:93003**
Special Issue:
Learning theory ★ Learning theory. **99b:93003**
Workshop:
Learning, Control and Hybrid Systems ★ Learning, control and hybrid systems. **99g:93003**

94–XX Information and communication, circuits

94–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Items with secondary classifications in 94–00

Menezes, Alfred J. (*with* van Oorschot, Paul C.; Vanstone, Scott A.) ★Handbook of applied cryptography. **99g:94015**
van Oorschot, Paul C. *see* **Menezes, Alfred J.; et al., 99g:94015**
(Rivest, Ronald L.) *see* **Menezes, Alfred J.; et al., 99g:94015**
Vanstone, Scott A. *see* **Menezes, Alfred J.; et al., 99g:94015**

Items listed otherwise than by author

Handbook:
Applied cryptography *see* **Menezes, Alfred J.; et al., 99g:94015**

94–01 Instructional exposition (textbooks, tutorial papers, etc.)

Baylis, John ★Error-correcting codes. (English summary) **99h:94001**
Roman, Steven ★Introduction to coding and information theory. (English summary) **99b:94001**

Items with secondary classifications in 94–01

(Gee, Steve) *see* **van der Lubbe, Jan C. A., 99c:94032**
Høholdt, Tom (*with* van Lint, Jacobus Hendricus; Pellikaan, Ruud) An elementary approach to algebraic geometry codes. (English summary) **99m:94056**
Hotz, Günter ★Algorithmische Informationstheorie. (German) [Algorithmic information theory] **99g:94008**
van Lint, Jacobus Hendricus *see* **Høholdt, Tom; et al., 99m:94056**
van der Lubbe, Jan C. A. ★Basic methods of cryptography. (English summary) **99c:94032**
Menezes, Alfred J. (*with* van Oorschot, Paul C.; Vanstone, Scott A.) ★Handbook of applied cryptography. **99g:94015**
Müller-Wichards, Dieter ★Transformationen und Signale. (German. German summary) [Transformations and signals] **99m:94013**
van Oorschot, Paul C. *see* **Menezes, Alfred J.; et al., 99g:94015**
Papini, Odile (*with* Wolfmann, Jacques) ★Algèbre discrète et codes correcteurs. (French. French summary) [Discrete algebra and error correcting codes] **99e:94039**
Pellikaan, Ruud *see* **Høholdt, Tom; et al., 99m:94056**
(Rivest, Ronald L.) *see* **Menezes, Alfred J.; et al., 99g:94015**
Vanstone, Scott A. *see* **Menezes, Alfred J.; et al., 99g:94015**
Wolfmann, Jacques *see* **Papini, Odile, 99e:94039**

Items listed otherwise than by author

Handbook:
Applied cryptography *see* **Menezes, Alfred J.; et al., 99g:94015**

94–02 Research exposition (monographs, survey articles)

Pless, Vera ★Introduction to the theory of error-correcting codes. (English summary) **99c:94001**

Items with secondary classifications in 94–02

Barron, Andrew (*with* Rissanen, Jorma; Yu, Bin[1]) The minimum description length principle in coding and modeling. (English summary) **99h:94032**
Bennett, Charles H. (*with* Shor, Peter W.) Quantum information theory. (English summary) **99h:94025**
Berger, Toby (*with* Gibson, Jerry D.) Lossy source coding. (English summary) **99i:94031**
Biglieri, Ezio (*with* Proakis, John; Shamai, Shlomo) Fading channels: information-theoretic and communications aspects. (English summary) **99i:94032**
Blake, Ian F. (*with* Heegard, Chris; Høholdt, Tom; Wei, Victor) Algebraic-geometry codes. (English summary) **99i:94070**
Calderbank, A. Robert The art of signaling: fifty years of coding theory. (English summary) **99i:94026**
Gibson, Jerry D. *see* **Berger, Toby, 99i:94031**
Heegard, Chris *see* **Blake, Ian F.; et al., 99i:94070**
(Hlawatsch, F.) *see* **Wigner distribution, 99k:94018**
Høholdt, Tom *see* **Blake, Ian F.; et al., 99i:94070**
Jürgensen, Helmut (*with* Konstantinidis, Stavros) Codes. **99a:94020**
Klir, George J. (*with* Wierman, Mark J.) ★Uncertainty-based information. **99i:94019**
Konstantinidis, Stavros *see* **Jürgensen, Helmut, 99a:94020**
(Mecklenbräuker, W.) *see* **Wigner distribution, 99k:94018**
Proakis, John *see* **Biglieri, Ezio; et al., 99i:94032**
Rissanen, Jorma *see* **Barron, Andrew; et al., 99h:94032**
Shamai, Shlomo *see* **Biglieri, Ezio; et al., 99i:94032**
Shor, Peter W. *see* **Bennett, Charles H., 99h:94025**
Steeb, Willi-Hans *see* **van Wyk, M. A., 99e:94004**
Suter, Bruce W. ★Multirate and wavelet signal processing. **99b:94011**
Teolis, Anthony ★Computational signal processing with wavelets. (English summary) **99h:94023**
Vakman, David ★Signals, oscillations, and waves. **99g:94005**
Wan, Zhe-Xian ★Quaternary codes. **99f:94016**
Wei, Victor *see* **Blake, Ian F.; et al., 99i:94070**
Wierman, Mark J. *see* **Klir, George J., 99i:94019**
van Wyk, M. A. (*with* Steeb, Willi-Hans) ★Chaos in electronics. (English summary) **99e:94004**
Yu, Bin[1] *see* **Barron, Andrew; et al., 99h:94032**

Items listed otherwise than by author

Wigner distribution ★The Wigner distribution. **99k:94018**

94–03 Historical (must also be assigned at least one classification number from Section 01)

Darlington, Sidney A history of network synthesis and filter theory for circuits composed of resistors, inductors, and capacitors. (English summary) (*see* **99m:94001**)
Verdú, Sergio Fifty years of Shannon theory. (English summary) **99i:94001**

Items with secondary classifications in 94–03

Toyoda, Toshiyuki History of the birth of information theory: the achievements of Satosi Watanabe. (Japanese) (*see* **99b:00018**)
(Watanabe, Satosi) *see* **Toyoda, Toshiyuki, (99b:00018)**

94–06 Proceedings, conferences, collections, etc.

(Darlington, Sidney) *see* **Memorial Issue: Darlington, Sidney, 99m:94001**
(Du, Ding Zhu) *see* **Advances in switching networks, 99a:94001**
(Hwang, Frank K.) *see* **Advances in switching networks, 99a:94001**
(Kuh, Ernest S.) *see* **Memorial Issue: Darlington, Sidney, 99m:94001**
(Mattson, H. F., Jr.) *see* **Applied algebra, algebraic algorithms and error-correcting codes, 99b:94002**
(Mora, Teo) *see* **Applied algebra, algebraic algorithms and error-correcting codes, 99b:94002**
(Sandberg, Irwin W.) *see* **Memorial Issue: Darlington, Sidney, 99m:94001**
(Verdú, Sergio) *see* **Information theory, 99h:94002**

Items listed otherwise than by author

Advances in switching networks ★Advances in switching networks. **99a:94001**
Anniversary:
IEEE Trans. Inform. Theory ★Information theory: 1948–1998. **99h:94002**
Applied algebra, algebraic algorithms and error-correcting codes ★Applied algebra, algebraic algorithms and error-correcting codes. **99b:94002**
Information theory ★Information theory: 1948–1998. **99h:94002**
Lecture Notes in Computer Science ★Applied algebra, algebraic algorithms and error-correcting codes. **99b:94002**
Memorial Issue:
Darlington, Sidney ★Darlington memorial issue. **99m:94001**
Princeton, NJ ★Advances in switching networks. **99a:94001**
Special Issue:
IEEE Trans. Inform. Theory ★Information theory: 1948–1998. **99h:94002**
Special Year:
Network Switching ★Advances in switching networks. **99a:94001**
Symposium:
Applied Algebra, Algebraic Algorithms and Error-correcting Codes ★Applied algebra, algebraic algorithms and error-correcting codes. **99b:94002**
Toulouse ★Applied algebra, algebraic algorithms and error-correcting codes. **99b:94002**
Workshop:
Network Switching ★Advances in switching networks. **99a:94001**

Items with secondary classifications in 94–06

(Boyd, Colin) *see* **Information security and privacy, 99i:94060**
(Darnell, Michael) *see* **Cryptography and coding, 99g:94019**
(Dawson, Edward) *see* **Information security and privacy, 99i:94060**
(Erickson, Gary J.) *see* **Maximum entropy and Bayesian methods, 99k:62005**
(Gilliam, David S.) *see* **Dynamical systems, control, coding, computer vision, 99k:93006**
(Kaliski, Burton S., Jr.) *see* **Advances in cryptology—CRYPTO '97, 99a:94041**
(Katayama, Tohru) *see* **Statistical methods in control and signal processing, 99b:93004**
(Krawczyk, Hugo) *see* **Advances in cryptology—CRYPTO '98, 99i:94059**
(Picci, Giorgio) *see* **Dynamical systems, control, coding, computer vision, 99k:93006**
(Rychert, Joshua T.) *see* **Maximum entropy and Bayesian methods, 99k:62005**
(Smith, C. Ray) *see* **Maximum entropy and Bayesian methods, 99k:62005**
(Sugimoto, Sueo) *see* **Statistical methods in control and signal processing, 99b:93004**

Items listed otherwise than by author

Advances in cryptology—CRYPTO '97 ★Advances in cryptology—CRYPTO '97. **99a:94041**
Advances in cryptology—CRYPTO '98 ★Advances in cryptology—CRYPTO '98. **99i:94059**
Boise, ID ★Maximum entropy and Bayesian methods. **99k:62005**
Brisbane ★Information security and privacy. **99i:94060**
Cirencester ★Cryptography and coding. **99g:94019**
Conference:
Cryptography and Coding ★Cryptography and coding. **99g:94019**
Cryptology ★Advances in cryptology—CRYPTO '97. **99a:94041**
—★Advances in cryptology—CRYPTO '98. **99i:94059**
Information Security and Privacy ★Information security and privacy. **99i:94060**
Cryptography and coding ★Cryptography and coding. **99g:94019**
Dynamical systems, control, coding, computer vision ★Dynamical systems, control, coding, computer vision. **99k:93006**
Information security and privacy ★Information security and privacy. **99i:94060**
Lecture Notes in Computer Science ★Advances in cryptology—CRYPTO '97. **99a:94041**
—★Cryptography and coding. **99g:94019**
—★Advances in cryptology—CRYPTO '98. **99i:94059**
—★Information security and privacy. **99i:94060**
Maximum entropy and Bayesian methods ★Maximum entropy and Bayesian methods. **99k:62005**
Padova ★Dynamical systems, control, coding, computer vision. **99k:93006**
Santa Barbara, CA ★Advances in cryptology—CRYPTO '97. **99a:94041**
—★Advances in cryptology—CRYPTO '98. **99i:94059**
Statistical methods in control and signal processing ★Statistical methods in control and signal processing. **99b:93004**

Symposium:
Mathematical Theory of Networks and Systems ★ Dynamical systems, control, coding, computer vision. **99k:93006**
Workshop:
Maximum Entropy and Bayesian Methods of Statistical Analysis ★ Maximum entropy and Bayesian methods. **99k:62005**

94Axx Communication, information

Koç, Çetin K. (*with* Sunar, B.) Low-complexity bit-parallel canonical and normal basis multipliers for a class of finite fields. (English summary) **99d:94001**
Sunar, B. *see* **Koç, Çetin K.**, **99d:94001**

94A05 Communication theory [see also 60G35, 90B12]

Agrell, Erik (*with* Eriksson, Thomas) Optimization of lattices for quantization. (English summary) **99h:94003**
Alexander, Paul D. *see* **Schlegel, Christian; et al.**
Barbarossa, Sergio *see* **Scaglione, Anna; et al.**
Beaty, M. G. (*with* Dodson, M. M.) An application of a general sampling theorem. (English summary) **99j:94001**
Beauquier, Bruno (*with* Hell, Pavol; Pérennes, Stéphane) Optimal wavelength-routed multicasting. (English summary) **99c:94002**
Bonatti, Ivanil S. *see* **Peres, Pedro L. D.; et al.**, **99c:94005**
Calderbank, A. Robert *see* **Tarokh, Vahid; et al.**
Dodson, M. M. *see* **Beaty, M. G.**, **99j:94001**
Ephremides, Anthony (*with* Hajek, Bruce) Information theory and communication networks: an unconsummated union. (English summary) **99h:94004**
Eriksson, Thomas *see* **Agrell, Erik**, **99h:94003**
Feldmann, Anja *see* **Gilbert, Anna Catherine; et al.**
Furuichi, Shigeru *see* **Ohya, Masanori; et al.**, (**99b:00018**)
Giannakis, Georgios B. *see* **Scaglione, Anna; et al.**
Gilbert, Anna Catherine (*with* Willinger, Walter; Feldmann, Anja) Scaling analysis of conservative cascades, with applications to network traffic. (English summary)
Goldenshluger, Alexander Nonparametric estimation of transfer functions: rates of convergence and adaptation. (English summary) **99c:94003**
Hajek, Bruce *see* **Ephremides, Anthony**, **99h:94004**
Hanly, Stephen V. *see* **Tse, David N. C.**
Hell, Pavol *see* **Beauquier, Bruno; et al.**, **99c:94002**
Inoue, Kei (*with* Ohya, Masanori; Suyari, Hiroki) A quantum information-theoretic approach to a quantum teleportation process. (Japanese) (*see* **99b:00018**)
Johnson, C. Richard, Jr. *see* **Zeng, Hanks H.; et al.**
Kim, Dongsoo S. Blocking behaviors of broadcast switching networks in random traffics. (English summary) **99i:94002**
Lehnert, James S. *see* **Lok, Tat M.**, **99c:94004**
Lok, Tat M. (*with* Lehnert, James S.) An asymptotic analysis of DS/SSMA communication systems with general linear modulation and error control coding. (English summary) **99c:94004**
Lopes, Amauri *see* **Peres, Pedro L. D.; et al.**, **99c:94005**
Mazzini, Gianluca *see* **Rovatti, Riccardo; et al.**, **99e:94002**
Müller, Bernd Classification and construction of quantum communication systems. (English summary) **99e:94001**
Naguib, Ayman *see* **Tarokh, Vahid; et al.**
Ohya, Masanori (*with* Suyari, Hiroki; Furuichi, Shigeru) An analysis of the quantum amplification process based on quantum mutual entropy. (Japanese) (*see* **99b:00018**) — *see also* **Inoue, Kei; et al.**, (**99b:00018**)
Pérennes, Stéphane *see* **Beauquier, Bruno; et al.**, **99c:94002**
Peres, Pedro L. D. (*with* Bonatti, Ivanil S.; Lopes, Amauri) Transmission line modeling: a circuit theory approach. (English summary) **99c:94005**
Rovatti, Riccardo (*with* Setti, Gianluca; Mazzini, Gianluca) Chaotic complex spreading sequences for asynchronous DS-CDMA. II. Some theoretical performance bounds. (English summary) **99e:94002**
Roy, Sumit *see* **Schlegel, Christian; et al.**
Sandberg, Irwin W. The superposition scandal. (English summary) **99k:94001**
Scaglione, Anna (*with* Barbarossa, Sergio; Giannakis, Georgios B.) Filterbank transceivers optimizing information rate in block transmissions over dispersive channels. (English summary)
Schlegel, Christian (*with* Alexander, Paul D.; Roy, Sumit) Coded asynchronous CDMA and its efficient detection. (English summary)
Seshadri, Nambi *see* **Tarokh, Vahid; et al.**
Setti, Gianluca *see* **Rovatti, Riccardo; et al.**, **99e:94002**
Shamai, Shlomo (*with* Wyner, Aaron D.) Information-theoretic considerations for symmetric, cellular, multiple-access fading channels. I. (English summary) **99b:94003**
— (*with* Wyner, Aaron D.) Information-theoretic considerations for symmetric, cellular, multiple-access fading channels. II. (English summary) **99b:94004**
Steeb, Willi-Hans *see* **van Wyk, M. A.**, **99e:94004**
Steinberg, Yossef New converses in the theory of identification via channels. (English summary) **99e:94003**
Suyari, Hiroki *see* **Inoue, Kei; et al.**, (**99b:00018**) *and* **Ohya, Masanori; et al.**, (**99b:00018**)
Tarokh, Vahid (*with* Naguib, Ayman; Seshadri, Nambi; Calderbank, A. Robert) Combined array processing and space-time coding. (English summary)
Tong, Lang *see* **Zeng, Hanks H.; et al.**
Tse, David N. C. (*with* Hanly, Stephen V.) Linear multiuser receivers: effective interference, effective bandwidth and user capacity. (English summary)
Willinger, Walter *see* **Gilbert, Anna Catherine; et al.**
van Wyk, M. A. (*with* Steeb, Willi-Hans) ★ Chaos in electronics. (English summary) **99e:94004**
Wyner, Aaron D. *see* **Shamai, Shlomo**, **99b:94003** *and* **99b:94004**
Yang, Wei Guo[1] The asymptotic equipartition property for a nonhomogeneous Markov information source. (English summary) **99j:94002**
Zeng, Hanks H. (*with* Tong, Lang; Johnson, C. Richard, Jr.) Relationships between the constant modulus and Wiener receivers. (English summary)

Items with secondary classifications in 94A05

Ashwin, Peter Attractors of a randomly forced electronic oscillator. (English summary) **99i:94075**
Awerbuch, Baruch (*with* Cidon, Israel; Kutten, Shay; Mansour, Yishay; Peleg, David) Optimal broadcast with partial knowledge. (English summary) **99d:90048**
Ban, Masashi (*with* Kurokawa, Keiko; Hirota, Osamu) Cut-off rate for quantum communication channels with entangled measurement. (English summary) **99a:81019**
Becker, Monique *see* **Moulki, M.; et al.**, (**99a:90010**)
Bennett, Charles H. (*with* Shor, Peter W.) Quantum information theory. (English summary) **99h:94025**
Beylot, André-Luc *see* **Moulki, M.; et al.**, (**99a:90010**)
Brassard, Gilles (*with* Braunstein, Samuel L.; Cleve, Richard) Teleportation as a quantum computation. (English summary) **99m:81028**
Braunstein, Samuel L. *see* **Brassard, Gilles; et al.**, **99m:81028**
Choudhury, Gagan L. (*with* Kogan, Yakov A.; Susskind, Silvio) Exact and asymptotic solutions for models of new telecommunication services. (English summary) (*see* **99a:90010**)
Chua, Leon O. *see* **Kolumbán, Géza; et al.**
Chui, Charles K. (*with* Li, Chun[3]) Characterization of smoothness via functional wavelet transforms. (English summary) **99g:42039**
Cidon, Israel *see* **Awerbuch, Baruch; et al.**, **99d:90048**
Cleve, Richard *see* **Brassard, Gilles; et al.**, **99m:81028**
Ding, Wei *see* **Qi, Dongxu; et al.**, (**99g:65002**)
Du, Ding Zhu *see* **Kim, Dongsoo S.; et al.**, **99h:90043**
Evfimievski, Alexandre V. A probabilistic algorithm for updating files over a communication link. (English summary) (*see* **99d:68011**)
Feldman, Philip M. (*with* Rachev, Svetlozar T.; Rüschendorf, Ludger) Limiting distribution of the collision resolution interval. (English summary) **99a:60111**
Gröchenig, Karlheinz Irregular sampling, Toeplitz matrices, and the approximation of entire functions of exponential type. (English summary) **99i:42003**
Hirota, Osamu *see* **Ban, Masashi; et al.**, **99a:81019**
Humair, S. *see* **Servi, L. D.**, **99m:90072**
Iavernaro, Felice (*with* La Scala, Massimo; Mazzia, Francesca) Boundary values methods for time-domain simulation of power system dynamic behavior. (English summary) **99b:65094**
Inai, Hiroshi (*with* Yamakita, Jiro) A two-layer queueing model to predict performance of packet transfer in broadband networks. (English summary) (*see* **99a:90010**)
Kennedy, Michael Peter *see* **Kolumbán, Géza; et al.**
Kim, Dongsoo S. (*with* Du, Ding Zhu; Pardalos, Panos M.) On conflict-free channel set assignments for optical cluster-based hypercube networks. (English summary) **99h:90043**
Kogan, Yakov A. *see* **Choudhury, Gagan L.; et al.**, (**99a:90010**)
Kolumbán, Géza (*with* Kennedy, Michael Peter; Chua, Leon O.) The role of synchronization in digital communications using chaos. II. Chaotic modulation and chaotic synchronization. (English summary)
Kong, Fan Jia (*with* Qiao, Bai You; Wang, Guang Xing) A new topological formula for computing SKT reliability of networks. (Chinese. English and Chinese summaries)
Krabs, Werner A convolution formula for time-invariant linear communication systems. (English summary) **99k:42022**
Kurokawa, Keiko *see* **Ban, Masashi; et al.**, **99a:81019**
Kutten, Shay *see* **Awerbuch, Baruch; et al.**, **99d:90048**
La Scala, Massimo *see* **Iavernaro, Felice; et al.**, **99b:65094**
Levitin, Lev B. Energy requirements in quantum communication. (English summary) **99f:81033**
Li, Chun[3] *see* **Chui, Charles K.**, **99g:42039**
Li, Huashan *see* **Qi, Dongxu; et al.**, (**99g:65002**)
Lupini, Renzo Periodic oscillations in transmission lines with nonlinear terminations. (English summary) **99a:34195**
Maffucci, A. (*with* Miano, G.) On the dynamic equations of linear multiconductor transmission lines with terminal nonlinear multiport resistors. (English summary) **99h:94081**
Malesińska, Ewa (*with* Piskorz, Steffen; Weißenfels, Gerhard) On the chromatic number of disk graphs. (English summary) **99e:05052**
Mansour, Yishay *see* **Awerbuch, Baruch; et al.**, **99d:90048**
Mazzia, Francesca *see* **Iavernaro, Felice; et al.**, **99b:65094**
Miano, G. *see* **Maffucci, A.**, **99h:94081**
Moulki, M. (*with* Beylot, André-Luc; Truffet, L.; Becker, Monique) An aggregation technique to evaluate the performance of a two-stage buffered ATM switch. (English summary) (*see* **99a:90010**)
Pardalos, Panos M. *see* **Kim, Dongsoo S.; et al.**, **99h:90043**
Peleg, David *see* **Awerbuch, Baruch; et al.**, **99d:90048**
Piskorz, Steffen *see* **Malesińska, Ewa; et al.**, **99e:05052**
Qi, Dongxu (*with* Ding, Wei; Li, Huashan) A new image transformation scheme and digital approximation between different pictures. (English summary) (*see* **99g:65002**)
Qiao, Bai You *see* **Kong, Fan Jia; et al.**
Rachev, Svetlozar T. *see* **Feldman, Philip M.; et al.**, **99a:60111**
Rüschendorf, Ludger *see* **Feldman, Philip M.; et al.**, **99a:60111**
Servi, L. D. (*with* Humair, S.) Optimizing Bernoulli routing policies for balancing loads on call centers and minimizing transmission costs. (English summary) **99m:90072**
Shor, Peter W. *see* **Bennett, Charles H.**, **99h:94025**
Susskind, Silvio *see* **Choudhury, Gagan L.; et al.**, (**99a:90010**)
Truffet, L. *see* **Moulki, M.; et al.**, (**99a:90010**)
Wang, Guang Xing *see* **Kong, Fan Jia; et al.**
Weißenfels, Gerhard *see* **Malesińska, Ewa; et al.**, **99e:05052**
Yamakita, Jiro *see* **Inai, Hiroshi**, (**99a:90010**)
Zaks, Shmuel Path layout in ATM networks—a survey. (English summary) (*see* **99h:68009**)

94A11 Application of orthogonal functions in communication

Abry, Patrice *see* **Aldroubi, Akram; et al.**
Abuelma'atti, Muhammad Taher A simple algorithm for computing the Fourier spectrum of experimentally obtained signals. (English summary)
Agayan, S. S. Successes and problems of fast orthogonal transforms (for signal-image processing). II. (Russian. Russian summary) (*see* **99k:68012**)
Aldroubi, Akram (*with* Abry, Patrice; Unser, Michael) Construction of biorthogonal wavelets starting from any two multiresolutions. (English summary)
— *see also* **Unser, Michael; et al., 99i:94004**
Benedetto, John J. Noise reduction in terms of the theory of frames. (English summary) **99e:94005**
Bergeaud, François (*with* Mallat, Stéphane) Matching pursuit of images. (English summary) **99f:94001**
Bovik, Alan C. *see* **Wei, Dong, 99h:94009**
Brigger, Patrick *see* **Müller, Frank; et al.**
Bulychev, Yu. G. (*with* Burlaĭ, I. V.) Information processing in a class of functions with a compactly supported spectrum. (Russian. Russian summary) **99d:94002**
Burlaĭ, I. V. *see* **Bulychev, Yu. G., 99d:94002**
Burrus, Charles S. *see* **Wei, Dong; et al., 99j:94004**
Cavaliere, Sergio *see* **Evangelista, Gianpaolo, 99h:94007**
Chan, Shing Chow (*with* Luo, Y.; Ho, K. L.) M-channel compactly supported biorthogonal cosine-modulated wavelet bases. (English summary) **99h:94005**
Cvetković, Zoran (*with* Vetterli, Martin) Overcomplete expansions and robustness. (English summary) **99h:94006**
— (*with* Vetterli, Martin) Tight Weyl-Heisenberg frames in $l^2(\mathbf{Z})$. (English summary) **99k:94002**
Doroslovački, Miloš I. On the least asymmetric wavelets. (English summary)
Dostanić, Milutin R. *see* **Milosavljević, Milan M., 99a:94002**
Evangelista, Gianpaolo (*with* Cavaliere, Sergio) Discrete frequency warped wavelets: theory and applications. (English summary) **99h:94007**
Faugère, Jean-Charles (*with* Moreau de Saint-Martin, François; Rouillier, Fabrice) Design of regular nonseparable bidimensional wavelets using Gröbner basis techniques. (English summary)
Fowler, Andrew C. (*with* Kember, G.) Singular systems analysis as a moving-window spectral method. (English summary) **99d:94003**
Friedlander, Benjamin *see* **Golden, Stuart, 99m:94002**
García, Antonio G. *see* **Zayed, Ahmed I., 99a:94003**
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Nath, Prem (*with* Kaur, M. M.; Singh, Ranjit) Some derivations of the Shannon entropy. (English summary) **99i:94024**
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Wang, Gui Jun (*with* Li, Xiao-ping) Correlation and information energy of interval-valued fuzzy numbers. (English summary) **99m:94019**
Wu, Min Jin (*with* Bai, Zhi Jiang) The relative entropy and its application. (Chinese. English and Chinese summaries)
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Bhattacharya, A. (*with* Talukdar, B.; Roy, U.; Ghosh, Angsula) Quantal information entropies for atoms. (English summary) **99d:81022**
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Fang, Shu Cherng (*with* Rajasekera, J. R.; Tsao, H.-S. J.) ★ Entropy optimization and mathematical programming. **99b:90119**
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Forchhammer, Søren (*with* Justesen, Jørn) Entropy bounds for constrained two-dimensional random fields. (English summary) **99k:94023**
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Skoglund, Mikael (*with* Hedelin, Per) Hadamard-based soft decoding for vector quantization over noisy channels. (English summary)
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Barron, Andrew (*with* Rissanen, Jorma; Yu, Bin[1]) The minimum description length principle in coding and modeling. (English summary) **99h:94032**
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Fu, Fang Wei (*with* Shen, Shi-Yi) Strong coding theorem and asymptotic error exponent of arbitrarily varying source with a fidelity criterion. (English summary) **99e:94019**
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Schuster, Guido M. (*with* Katsaggelos, Aggelos K.) An optimal polygonal boundary encoding scheme in the rate distortion sense. (English summary) **99j:94024**

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Skarbek, Władysław On relation of image compression and image association. (English summary) **99i:94030**
Skoglund, Mikael (*with* Hedelin, Per) Hadamard-based soft decoding for vector quantization over noisy channels. (English summary)
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— (*with* Zhang, Zhen[1]) Variable-rate trellis source encoding. (English summary) **99k:94027**
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Albers, Susanne (*with* Mitzenmacher, Michael) Average case analyses of list update algorithms, with applications to data compression. (English summary) **99c:68060**
Arikan, Erdal (*with* Merhav, Neri) Guessing subject to distortion. (English summary) **99g:94011**
— (*with* Merhav, Neri) Joint source-channel coding and guessing with application to sequential decoding. (English summary) **99h:94028**
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Arutyunyan, E. A. Multiterminal source coding: achievable rates and reliability. (English summary) **99e:94022**
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Fujiwara, Toru *see* **Morelos-Zaragoza, Robert; et al., 99k:94051**
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— *see also* **Shany, Yaron; et al., 99i:94068**
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Vazirani, Vijay V. (*with* Saran, Huzur; Rajan, B. Sundar) An efficient algorithm for constructing minimal trellises for codes over finite abelian groups. (English summary) **99a:94048**

94B15 Cyclic codes

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— (*with* Harada, Masaaki) Codes of lengths 120 and 136 meeting the Grey-Rankin bound and quasi-symmetric designs. (English summary) **99j:94071**
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— (*with* Leonard, Douglas A.; Jensen, Helge Elbrønd; Høholdt, Tom) Fast erasure-and-error decoding of algebraic geometry codes up to the Feng-Rao bound. (English summary) **99h:94072**
Serebryakov, A. Yu. Decoding of codes on elliptic curves with the number of errors greater than half of the code distance constructed. (Russian. Russian summary) **99a:94057**
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Battail, Gérard On random-like codes. (English summary) **99a:94059**

94B75 Applications of the theory of convex sets and geometry of numbers (covering radius, etc.) [see also 11H31]

Cohen, Gérard Denis (*with* Honkala, Iiro; Litsyn, Simon; Lobstein, Antoine) ★Covering codes. **99b:94059**
Davydov, Aleksandr A. Constructions of nonlinear covering codes. (English summary) **99g:94024**
Edel, Yves (*with* Rains, Eric M.; Sloane, Neil J. A.) On kissing numbers in dimensions 32 to 128. (English summary) **99c:94064**
Esmaeili, Morteza (*with* Gulliver, T. Aaron; Secord, Norman P.) Trellis complexity of linear block codes via atomic codewords. (English summary) **99b:94060**
Gulliver, T. Aaron *see* **Esmaeili, Morteza; et al., 99b:94060**
Honkala, Iiro Combinatorial lower bounds on binary codes with covering radius one. (English summary) **99k:94071**
— *see also* **Cohen, Gérard Denis; et al., 99b:94059**
Langevin, Philippe (*with* Solé, Patrick) Kernels and defaults. (English summary) **99h:94079**
Litsyn, Simon *see* **Cohen, Gérard Denis; et al., 99b:94059**
Lobstein, Antoine *see* **Cohen, Gérard Denis; et al., 99b:94059**
Rains, Eric M. *see* **Edel, Yves; et al., 99c:94064**
Secord, Norman P. *see* **Esmaeili, Morteza; et al., 99b:94060**
Sloane, Neil J. A. *see* **Edel, Yves; et al., 99c:94064**
Solé, Patrick *see* **Langevin, Philippe, 99h:94079**

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Blass, Uri (*with* Litsyn, Simon) Several new lower bounds on the size of codes with covering radius one. (English summary) **99h:94078**
Hill, Raymond *see* **Kolev, E., 99i:05061**
Kolev, E. (*with* Hill, Raymond) An improved lower bound on the covering number $K_2(9, 1)$. (English summary) **99i:05061**
Laihonen, Tero (*with* Litsyn, Simon) On upper bounds for minimum distance and covering radius of non-binary codes. (English summary) **99g:94022**
Litsyn, Simon (*with* Solé, Patrick; Struik, René) On the covering radius of an unrestricted code as a function of the rate and dual distance. (English summary) **99g:94023**
— *see also* **Laihonen, Tero, 99g:94022** *and* **Blass, Uri, 99h:94078**
Shor, Peter W. (*with* Sloane, Neil J. A.) A family of optimal packings in Grassmannian manifolds. (English summary) **99b:52047**
Sloane, Neil J. A. *see* **Shor, Peter W., 99b:52047**
Solé, Patrick *see* **Litsyn, Simon; et al., 99g:94023**
Struik, René *see* **Litsyn, Simon; et al., 99g:94023**

94B99 None of the above, but in this section

Marquès Solé, Daniel *see* **Xambó-Descamps, Sebastian, 99d:94045**
Xambó-Descamps, Sebastian (*with* Marquès Solé, Daniel) Mathematical symbolic systems and functional languages. (English summary) **99d:94045**

Items with secondary classifications in 94B99

Althaler, Joachim (*with* Dür, Arne) A generalization of the Massey-Ding algorithm. (English summary) **99i:94038**
Ballarin, Clemens (*with* Paulson, Lawrence C.) Reasoning about coding theory: the benefits we get from computer algebra. (English summary) (*see* **99k:68005**)
Dür, Arne *see* **Althaler, Joachim, 99i:94038**
Fitzpatrick, Patrick On the scalar rational interpolation problem. (English summary) **99c:41029**
Grabner, Peter J. (*with* Herendi, Tamás; Tichy, Robert F.) Fractal digital sums and codes. (English summary) **99c:11150**
Herendi, Tamás *see* **Grabner, Peter J.; et al., 99c:11150**
Hermann, Thomas[2] (*with* Poguntke, Werner) Fehlerkorrigierende Codes in der Kryptologie. (German summary) [Error-correcting codes in cryptology] **99a:94033**
Jürgensen, Helmut (*with* Konstantinidis, Stavros) Codes. **99a:94020**
Konstantinidis, Stavros *see* **Jürgensen, Helmut, 99a:94020**
Lavenda, B. H. The analogy between coding theory and multifractals. (English summary) **99j:94018**
Levenshtein, Vladimir I. Split orthogonal arrays and maximum independent resilient systems of functions. (English summary) **99c:05036**
Paulson, Lawrence C. *see* **Ballarin, Clemens, (99k:68005)**
Poguntke, Werner *see* **Hermann, Thomas[2], 99a:94033**
Rasetti, Mario *see* **Zanardi, Paolo, 99b:82066**
Tichy, Robert F. *see* **Grabner, Peter J.; et al., 99c:11150**
Zanardi, Paolo (*with* Rasetti, Mario) Error avoiding quantum codes. (English summary) **99b:82066**

94Cxx Circuits, networks

94C05 Analytic circuit theory

Ashwin, Peter Attractors of a randomly forced electronic oscillator. (English summary) **99i:94075**
Banerjee, Soumitro *see* **Yuan, Guohui; et al., 99c:94071**
Berns, Daniel W. (*with* Moiola, Jorge L.; Chen, Guanrong) Predicting period-doubling bifurcations and multiple oscillations in nonlinear time-delayed feedback systems. (English summary) **99c:94065**
Bhaskara, H. K. (*with* Lacomba, Ernesto A.; Rama, K. K.; Tulczyjew, Włodzimierz Marek) Generating functions, Morse families and characteristics of resistive nonlinear branch networks. (English summary) **99c:94066**
Bonnans, J. Frédéric Mathematical study of very high voltage power networks. II. The AC power flow problem. (English summary) **99g:94025**
Bose, Bella *see* **Tallini, Luca G., 99c:94069**
Chen, Fu-Wei *see* **Liao, Teh-Lu, 99h:94080**
Chen, Guanrong *see* **Berns, Daniel W.; et al., 99c:94065**
Chua, Leon O. *see* **Takahashi, Norikazu, 99h:94085**
Elfadel, Ibrahim *see* **Silveira, L. Miguel; et al.**
Frey, Douglas R. A class of relaxation algorithms for finding the periodic steady-state solution in nonlinear systems. (English summary) **99e:94052**
Fujimoto, Hideaki Darlington-type realization of a class of 2-variable 2-wire-lines networks. (English summary) **99b:94061**
Gristede, George Diedrich (*with* Ruehli, Albert E.; Zukowski, Charles Albert) Convergence properties of waveform relaxation circuit simulation methods. (English summary) **99c:94067**
Guez, A. *see* **Peterfreund, N., 99m:94070**
Günther, Michael Simulating digital circuits numerically—a charge-oriented ROW approach. (English summary) **99c:94068**
Halgas, Stanisław *see* **Tadeusiewicz, Michał**
Hikita, T. (*with* Rosenberg, I. G.) Completeness for uniformly delayed circuits, a survey. (English summary) **99i:94076**
Kamon, Mattan *see* **Silveira, L. Miguel; et al.**
Lacomba, Ernesto A. *see* **Bhaskara, H. K.; et al., 99c:94066**
Liao, Teh-Lu (*with* Chen, Fu-Wei) Control of Chua's circuit with a cubic nonlinearity via nonlinear linearization technique. (English summary) **99h:94080**
Maffucci, A. (*with* Miano, G.) On the dynamic equations of linear multiconductor transmission lines with terminal nonlinear multiport resistors. (English summary) **99h:94081**
Miano, G. *see* **Maffucci, A., 99h:94081**
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Sandberg, Irwin W. Notes on uniform approximation of time-varying systems on finite time intervals. (English summary) **99h:94082**
de la Sen, Manuel A method for general design of positive real functions. (English summary) **99h:94083**
Shinoda, Shoji *see* **Watanabe, Hitoshi, (99m:94001)**
Shygimaga, Dmitro V. (*with* Vavriv, D. M.; Vinogradov, Vladimir V.) Chaos due to the interaction of high- and low-frequency modes. (English summary) **99h:94084**
Silveira, L. Miguel (*with* Kamon, Mattan; Elfadel, Ibrahim; White, Jacob) A coordinate-transformed Arnoldi algorithm for generating guaranteed stable reduced-order models of RLC circuits. (English summary)
Tadeusiewicz, Michał (*with* Halgas, Stanisław) Finding all the DC solutions of a certain class of piecewise-linear circuits. (English summary)
Takahashi, Norikazu (*with* Chua, Leon O.) On the complete stability of nonsymmetric cellular neural networks. (English summary) **99h:94085**
Tallini, Luca G. (*with* Bose, Bella) Theory and design of adjacent asymmetric error masking codes. (English summary) **99c:94069**
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Unbehauen, Rolf *see* **Yang, Xiao, 99c:94070**
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Vinogradov, Vladimir V. *see* **Shygimaga, Dmitro V.; et al., 99h:94084**
Watanabe, Hitoshi (*with* Shinoda, Shoji) Soul of circuit theory—a review on research activities of graphs and circuits in Japan. (English summary) (*see* **99m:94001**)
White, Jacob *see* **Silveira, L. Miguel; et al.**
Yablonskaya, K. A. On the realizability of rational functions by some types of electrical circuits. (Russian. Russian summary) **99k:94073**
Yamamura, Kiyotaka (*with* Ohshima, Takayuki) Finding all solutions of piecewise-linear resistive circuits using linear programming. (English summary) **99d:94046**
Yang, Xiao (*with* Unbehauen, Rolf) New stability test algorithm for two-dimensional digital filters. (English summary) **99c:94070**

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Yuan, Guohui (*with* Banerjee, Soumitro; Ott, Edward; Yorke, James A.) Border-collision bifurcations in the buck converter. (English summary) **99c:94071**
Zdobnov, S. V. Upper bounds for Shannon functions for λ-circuits and λ-π-circuits. (Russian) (*see* **99h:00017**)
Zemanian, Armen H. Nonstandard electrical networks. **99k:94074**
Zerz, Eva LFT representations of parametrized polynomial systems. (English summary) **99k:94075**
Zhu, Wen Ge A general wavelet transform and its application to artificial neural networks. (Chinese. English and Chinese summaries) **99h:94086**
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Algaba, A. (*with* Merino, M.; García, Cristóbal; Maestre, M.) Resonance phenomena in an electronic circuit. (Spanish) (*see* **99d:00018**)
di Bernardo, Mario (*with* Budd, C. J.; Champneys, A. R.) Grazing, skipping and sliding: analysis of the non-smooth dynamics of the DC/DC buck converter. (English summary) **99c:34072**
Bloch, Anthony M. (*with* Crouch, Peter E.) Representations of Dirac structures on vector spaces and nonlinear L-C circuits. (English summary) **99i:34013**
Bonatti, Ivanil S. *see* **Peres, Pedro L. D.; et al., 99c:94005**
Borcea, Liliana (*with* Papanicolaou, George C.) Network approximation for transport properties of high contrast materials. (English summary) **99f:73003**
Bose, Bella *see* **Tallini, Luca G., 99c:94061**
Bossi, M. Chiara (*with* Vitillaro, Enzo) Asymptotic stability for damped strongly non-autonomous systems with applications to holonomic mechanical systems and nonlinear networks. (English summary) **99d:34084**
Budd, C. J. *see* **di Bernardo, Mario; et al., 99c:34072**
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Chandra, Ashok K. (*with* Raghavan, Prabhakar; Ruzzo, Walter L.; Smolensky, Roman; Tiwari, Prasoon) The electrical resistance of a graph captures its commute and cover times. (English summary) **99h:60140**
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Darlington, Sidney A history of network synthesis and filter theory for circuits composed of resistors, inductors, and capacitors. (English summary) (*see* **99m:94001**)
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Dvorak, Vaclav Bounds on the sizes of decision diagrams. (English summary) **99g:68094**
Ehara, Jun-ichi (*with* Watanabe, Shinsuke) Shock waves in an inhomogeneous nonlinear LC circuit. (Japanese) (*see* **99f:76003**)
Fernández-Sánchez, F. (*with* Freire Macías, Emilio; Pizarro, Luis; Rodríguez-Luis, A. J.) Analytical and numerical study of a van der Pol-Duffing oscillator. (Spanish. English summary) (*see* **99g:00036**)
— (*with* Freire Macías, Emilio; Rodríguez-Luis, A. J.) Isolas, cusps and global bifurcations in an electronic oscillator. (English summary) **99c:58118**
— *see also* **Rodríguez-Luis, A. J.; et al., (99g:00036)**
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Joy, Mark P. (*with* Tavsanoglu, Vedat) An equilibrium analysis of CNN's. (English summary) **99c:92009**
Julián, Pedro (*with* Desages, Alfredo; Agamennoni, Osvaldo) High-level canonical piecewise linear representation using a simplicial partition. (English summary) **99m:65051**
Kameyama, Michitaka (*with* Tamaki, Saneaki) Code assignment algorithm for highly parallel multiple-valued k-ary operation circuits using partition theory. (English summary) **99c:68136**
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Koptev, A. M. On the complexity of reliable probabilistic networks. (Russian. Russian summary) **99h:94091**
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Maestre, M. *see* **Algaba, A.; et al., (99d:00018)**
Magnus, W. (*with* Schoenmaker, W.) On the use of a new integral theorem for the quantum mechanical treatment of electric circuits. (English summary) **99k:82083**
Matsuzuka, Isamu (*with* Nagasawa, Koji; Kitahama, Akihiro) A proposal for two-sided Laplace transforms and its application to electronic circuits. (English summary) **99h:44003**
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Peres, Pedro L. D. (*with* Bonatti, Ivanil S.; Lopes, Amauri) Transmission line modeling: a circuit theory approach. (English summary) **99c:94005**
Pizarro, Luis *see* **Fernández-Sánchez, F.; et al., (99g:00036)** *and* **Rodríguez-Luis, A. J.; et al., (99g:00036)**
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— *see also* **Fernández-Sánchez, F.; et al., 99c:58118** *and* **(99g:00036)**
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Sandberg, Irwin W. The superposition scandal. (English summary) **99k:94001**
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Schein, O. (*with* Denk, Georg) Numerical solution of stochastic differential-algebraic equations with applications to transient noise simulation of microelectronic circuits. (English summary) **99i:65076**
Schlacher, Kurt (*with* Kugi, Andreas; Scheidl, Rudolf) Tensor analysis based symbolic computation for mechatronic systems. (English summary) **99d:70001**
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Tallini, Luca G. (*with* Bose, Bella) Design of balanced and constant weight codes for VLSI systems. (English summary) **99c:94061**
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Wing, Omar (*with* Jiang, Yao Lin; Yu, Qing-Jian) Rational approximation of irrational functions by linear fractional transformations. (English summary) **99h:41023**
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94C10 Switching theory, application of Boolean algebra; Boolean functions [see also 06E30]

Agrawal, Vishwani D. (*with* Lee, David[2]; Woźniakowski, Henryk) Numerical computation of characteristic polynomials of Boolean functions and its applications. (English summary) **99h:94087**
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Chashkin, A. V. On the mean time of the computation of polynomially reducible Boolean functions. (Russian) **99d:94047**
Chung, Hwan Mook (*with* Pi, Su Young; Rey, Siegfried) The MacLaurin's and Taylor's series expansions of the symbolic multiple valued logic functions. (English summary) (*see* **99i:03025**)
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Evans, William S. (*with* Pippenger, Nicholas) On the maximum tolerable noise for reliable computation by formulas. (English summary) **99e:94053**
Feng, Dengguo (*with* Pei, Ding Yi; Xiao, Guo Zhen[1]) Maximum correlation analysis of nonlinear combining functions. (English summary) **99e:94054**
Haga, Takahiro An application of the (p, q)-logic to the synthesis of the p-valued logical networks and the $s - (p, q)$-logical completeness. (English summary)
Hayase, Kazuyoshi (*with* Imai, Hiroshi) OBDDs of a monotone function and of its prime implicants. **99b:94064**
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Kim, Dongsoo S. (*with* Du, Ding Zhu) Multirate broadcast switching networks nonblocking in a wide sense. (English summary) **99b:94065**
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Lin, Guo-Hui (*with* Du, Ding Zhu; Wu, Weili; Yoo, Kyeongah) On 3-rate rearrangeability of Clos networks. (English summary) **99e:94055**
Lozhkin, S. A. On the depth of Boolean functions in an arbitrary complete basis. (Russian) **99c:94072**
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McIlroy, M. Douglas (*with* Savicki, Joseph P.) Isomorphism of classical rearrangeable networks. (English summary) (*see* **99a:94001**)
Min, Ying Hua (*with* Li, Zhongcheng; Zhao, Zhuxing) Boolean process. (English summary) **99a:94072**
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Mathematics Subject Classification 2000

Mathematics Subject Classification 2000 (MSC2000)

This is a completely revised version of the MSC, prepared collaboratively in the editorial offices of MR and Zentralblatt MATH. It replaces the 1991 MSC and is effective (in MR) with the January 2000 issue (2000a).

While in many areas in the MSC there are only very small changes, others have been expanded significantly, and in some areas there is an altogether new classification. The major changes are as follows: Section 04 has been eliminated; 03E will now be used for items previously classified in 04. A new section, 37, has been created for Dynamical systems and ergodic theory; as a result Section 58F has been eliminated. Also in Section 58, 58G has been completely revised and now appears as 58J. The new Section 74, Mechanics of deformable solids, is a completely revised version of Section 73, which has been eliminated. The areas covered by Sections 90 and 92 have been reorganized into Sections 90, 91 and 92. Sections 90B and 90C remain essentially unchanged. The new Section 91A replaces 90D and 91B replaces 90A. The other subsections of 91 replace the old subsections 92G, H, J and K. Sections 92B, C, D, and E remain essentially unchanged. MSC2000 contains a new section, 97, for Mathematics education. This will be used only as a secondary classification in MR. Other sections with significant additions or reorganization include 14, 22, 32, 34, 46, 47, 53, and 65.

To help users of the MSC, conversion tables have been constructed and are available on the AMS web site, www.ams.org. These give, for each 1991 classification that does not appear in MSC2000, the classification(s) in MSC2000 that are most likely to be used for items that would previously have been classified using the old classification, and, for each new classification in MSC2000, the classification(s) in the 1991 MSC that are most likely to have been used earlier for items classified using the new classification.

Instructions for using the Mathematics Subject Classification 2000

These instructions apply uniformly to all fields listed. The main purpose of the classification is to help readers find the items of present or potential interest to them as readily as possible—in MR, in Zbl, or anywhere else where this classification system is used. A paper or book should be listed under the classification where it will receive the broadest attention from readers possibly interested in it—these include both people working in that area and people who are familiar with that area and apply its results and methods elsewhere (inside or outside mathematics). It will be extremely useful for both readers and classifiers to familiarize themselves with the entire classification system and thus to become aware of all the classifications of possible interest to them.

For every paper or book listed, MR chooses precisely one "primary" classification, which is simply the code for the section (MSC entry) in which the item will be located. This section should be the one that covers the principal contribution. When an item contains several principal contributions in different areas, the primary classification should cover the "most important" among them. A paper or book may receive one or several "secondary" classifications (or "cross-references") to cover any remaining principal contributions, ancillary results, motivation or origin of the problems discussed, intended or potential field of application, or other significant aspects worthy of notice.

The "primary" principal contribution is meant to be the one including the most important part of the work actually done in the item under consideration. For example, a paper whose main overall content is the solution of a problem in graph theory, which arose in computer science and whose solution is, say, at present only of interest to computer scientists, belongs primarily in 05C with a cross-reference in 68; conversely, a paper whose overall content lies mainly in computer science should receive a primary classification in 68, even if it makes heavy use of graph theory and proves several new graph-theoretic results along the way.

There are two types of cross-references given after many classifications in the list. The first type is of the form "{For A, see X}"; if this appears in section Y, it means that for contributions described by A one should usually assign the classification X, not Y. The other type of cross-reference merely points out related classifications; it is of the form "[See also ...]", "[See mainly ...]", etc., and the classifications listed in the brackets may, but need not, be added to the classification of a paper, or they may be used in place of the classification where the cross-reference is given. The classifier will have to judge which classification is the most appropriate for the item at hand.

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- 00–02 Research exposition (monographs, survey articles)
- **00Axx General and miscellaneous specific topics**
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- 00A69 General applied mathematics {For physics, see 00A79 and Sections 70 through 86}
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- 00B50 Volumes of selected translations
- 00B55 Miscellaneous volumes of translations
- 00B60 Collections of reprinted articles [See also 01A75]

01–XX HISTORY AND BIOGRAPHY [See also the classification number –03 in the other sections]
- 01–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 01–01 Instructional exposition (textbooks, tutorial papers, etc.)
- 01–02 Research exposition (monographs, survey articles)
- 01–06 Proceedings, conferences, collections, etc.
- 01–08 Computational methods
- **01Axx History of mathematics and mathematicians**
- 01A05 General histories, source books
- 01A07 Ethnomathematics, general
- 01A10 Paleolithic, Neolithic
- 01A12 Indigenous cultures of the Americas
- 01A13 Other indigenous cultures (non-European)
- 01A15 Indigenous European cultures (pre-Greek, etc.)
- 01A16 Egyptian
- 01A17 Babylonian
- 01A20 Greek, Roman
- 01A25 China
- 01A27 Japan
- 01A29 Southeast Asia
- 01A30 Islam (Medieval)
- 01A32 India
- 01A35 Medieval
- 01A40 15th and 16th centuries, Renaissance
- 01A45 17th century
- 01A50 18th century
- 01A55 19th century
- 01A60 20th century
- 01A61 Twenty-first century
- 01A65 Contemporary
- 01A67 Future prospectives
- 01A70 Biographies, obituaries, personalia, bibliographies
- 01A72 Schools of mathematics
- 01A73 Universities
- 01A74 Other institutions and academies
- 01A75 Collected or selected works; reprintings or translations of classics [See also 00B60]
- 01A80 Sociology (and profession) of mathematics
- 01A85 Historiography
- 01A90 Bibliographic studies
- 01A99 Miscellaneous topics

03–XX MATHEMATICAL LOGIC AND FOUNDATIONS
- 03–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 03–01 Instructional exposition (textbooks, tutorial papers, etc.)
- 03–02 Research exposition (monographs, survey articles)
- 03–03 Historical (must also be assigned at least one classification number from Section 01)
- 03–04 Explicit machine computation and programs (not the theory of computation or programming)
- 03–06 Proceedings, conferences, collections, etc.
- **03A05 Philosophical and critical {For philosophy of mathematics, see also 00A30}**
- **03Bxx General logic**
- 03B05 Classical propositional logic
- 03B10 Classical first-order logic
- 03B15 Higher-order logic and type theory
- 03B20 Subsystems of classical logic (including intuitionistic logic)
- 03B22 Abstract deductive systems

03B25 Decidability of theories and sets of sentences [See also 11U05, 12L05, 20F10]
03B30 Foundations of classical theories (including reverse mathematics) [See also 03F35]
03B35 Mechanization of proofs and logical operations [See also 68T15]
03B40 Combinatory logic and lambda-calculus [See also 68N18]
03B42 Logic of knowledge and belief
03B44 Temporal logic
03B45 Modal logic {For knowledge and belief see 03B42; for temporal logic see 03B44; for provability logic see also 03F45}
03B47 Substructural logics (including relevance, entailment, linear logic, Lambek calculus, BCK and BCI logics) {For proof-theoretic aspects see 03F52}
03B48 Probability and inductive logic [See also 60A05]
03B50 Many-valued logic
03B52 Fuzzy logic; logic of vagueness [See also 68T27, 68T37, 94D05]
03B53 Logics admitting inconsistency (paraconsistent logics, discussive logics, etc.)
03B55 Intermediate logics
03B60 Other nonclassical logic
03B65 Logic of natural languages [See also 68T50, 91F20]
03B70 Logic in computer science [See also 68–XX]
03B80 Other applications of logic
03B99 None of the above, but in this section

03Cxx Model theory

03C05 Equational classes, universal algebra [See also 08Axx, 08Bxx, 18C05]
03C07 Basic properties of first-order languages and structures
03C10 Quantifier elimination, model completeness and related topics
03C13 Finite structures [See also 68Q15, 68Q19]
03C15 Denumerable structures
03C20 Ultraproducts and related constructions
03C25 Model-theoretic forcing
03C30 Other model constructions
03C35 Categoricity and completeness of theories
03C40 Interpolation, preservation, definability
03C45 Classification theory, stability and related concepts
03C50 Models with special properties (saturated, rigid, etc.)
03C52 Properties of classes of models
03C55 Set-theoretic model theory
03C57 Effective and recursion-theoretic model theory [See also 03D45]
03C60 Model-theoretic algebra [See also 08C10, 12Lxx, 13L05]
03C62 Models of arithmetic and set theory [See also 03Hxx]
03C64 Model theory of ordered structures; o-minimality
03C65 Models of other mathematical theories
03C68 Other classical first-order model theory
03C70 Logic on admissible sets
03C75 Other infinitary logic
03C80 Logic with extra quantifiers and operators [See also 03B42, 03B44, 03B45, 03B48]
03C85 Second- and higher-order model theory
03C90 Nonclassical models (Boolean-valued, sheaf, etc.)
03C95 Abstract model theory
03C98 Applications of model theory [See also 03C60]
03C99 None of the above, but in this section

03Dxx Computability and recursion theory

03D03 Thue and Post systems, etc.
03D05 Automata and formal grammars in connection with logical questions [See also 68Q45, 68Q70, 68R15]
03D10 Turing machines and related notions [See also 68Q05]
03D15 Complexity of computation [See also 68Q15, 68Q17]
03D20 Recursive functions and relations, subrecursive hierarchies
03D25 Recursively (computably) enumerable sets and degrees
03D28 Other Turing degree structures
03D30 Other degrees and reducibilities
03D35 Undecidability and degrees of sets of sentences
03D40 Word problems, etc. [See also 06B25, 08A50, 20F10, 68R15]
03D45 Theory of numerations, effectively presented structures [See also 03C57; for intuitionistic and similar approaches see 03F55]
03D50 Recursive equivalence types of sets and structures, isols
03D55 Hierarchies
03D60 Computability and recursion theory on ordinals, admissible sets, etc.
03D65 Higher-type and set recursion theory
03D70 Inductive definability
03D75 Abstract and axiomatic computability and recursion theory
03D80 Applications of computability and recursion theory
03D99 None of the above, but in this section

03Exx Set theory

03E02 Partition relations
03E04 Ordered sets and their cofinalities; pcf theory
03E05 Other combinatorial set theory
03E10 Ordinal and cardinal numbers
03E15 Descriptive set theory [See also 28A05, 54H05]
03E17 Cardinal characteristics of the continuum
03E20 Other classical set theory (including functions, relations, and set algebra)
03E25 Axiom of choice and related propositions
03E30 Axiomatics of classical set theory and its fragments
03E35 Consistency and independence results
03E40 Other aspects of forcing and Boolean-valued models
03E45 Inner models, including constructibility, ordinal definability, and core models
03E47 Other notions of set-theoretic definability
03E50 Continuum hypothesis and Martin's axiom
03E55 Large cardinals
03E60 Determinacy principles
03E65 Other hypotheses and axioms
03E70 Nonclassical and second-order set theories
03E72 Fuzzy set theory
03E75 Applications of set theory
03E99 None of the above, but in this section

03Fxx Proof theory and constructive mathematics

03F03 Proof theory, general
03F05 Cut-elimination and normal-form theorems
03F07 Structure of proofs
03F10 Functionals in proof theory
03F15 Recursive ordinals and ordinal notations
03F20 Complexity of proofs
03F25 Relative consistency and interpretations
03F30 First-order arithmetic and fragments
03F35 Second- and higher-order arithmetic and fragments [See also 03B30]
03F40 Gödel numberings in proof theory
03F45 Provability logics and related algebras (e.g., diagonalizable algebras) [See also 03B45, 03G25, 06E25]
03F50 Metamathematics of constructive systems
03F52 Linear logic and other substructural logics [See also 03B47]
03F55 Intuitionistic mathematics
03F60 Constructive and recursive analysis [See also 03B30, 03D45, 26E40, 46S30, 47S30]
03F65 Other constructive mathematics [See also 03D45]
03F99 None of the above, but in this section

03Gxx Algebraic logic

03G05 Boolean algebras [See also 06Exx]
03G10 Lattices and related structures [See also 06Bxx]
03G12 Quantum logic [See also 06C15, 81P10]
03G15 Cylindric and polyadic algebras; relation algebras
03G20 Łukasiewicz and Post algebras [See also 06D25, 06D30]
03G25 Other algebras related to logic [See also 03F45, 06D20, 06E25, 06F35]
03G30 Categorical logic, topoi [See also 18B25, 18C05, 18C10]
03G99 None of the above, but in this section

03Hxx Nonstandard models [See also 03C62]

03H05 Nonstandard models in mathematics [See also 26E35, 28E05, 30G06, 46S20, 47S20, 54J05]
03H10 Other applications of nonstandard models (economics, physics, etc.)
03H15 Nonstandard models of arithmetic [See also 11U10, 12L15, 13L05]
03H99 None of the above, but in this section

05–XX COMBINATORICS {For finite fields, see 11Txx}

05–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
05–01 Instructional exposition (textbooks, tutorial papers, etc.)
05–02 Research exposition (monographs, survey articles)
05–03 Historical (must also be assigned at least one classification number from Section 01)
05–04 Explicit machine computation and programs (not the theory of computation or programming)
05–06 Proceedings, conferences, collections, etc.

05Axx Enumerative combinatorics

05A05 Combinatorial choice problems (subsets, representatives, permutations)
05A10 Factorials, binomial coefficients, combinatorial functions [See also 11B65, 33Cxx]
05A15 Exact enumeration problems, generating functions [See also 33Cxx, 33Dxx]
05A16 Asymptotic enumeration
05A17 Partitions of integers [See also 11P81, 11P82, 11P83]
05A18 Partitions of sets
05A19 Combinatorial identities
05A20 Combinatorial inequalities
05A30 q-calculus and related topics [See also 03Dxx]
05A40 Umbral calculus
05A99 None of the above, but in this section

05Bxx Designs and configurations {For applications of design theory, see 94C30}

05B05 Block designs [See also 51E05, 62K10]
05B07 Triple systems

05B10 Difference sets (number-theoretic, group-theoretic, etc.) [See also 11B13]
05B15 Orthogonal arrays, Latin squares, Room squares
05B20 Matrices (incidence, Hadamard, etc.)
05B25 Finite geometries [See also 51D20, 51Exx]
05B30 Other designs, configurations [See also 51E30]
05B35 Matroids, geometric lattices [See also 52B40, 90C27]
05B40 Packing and covering [See also 11H31, 52C15, 52C17]
05B45 Tessellation and tiling problems [See also 52C20, 52C22]
05B50 Polyominoes
05B99 None of the above, but in this section
05Cxx Graph theory {For applications of graphs, see 68R10, 90C35, 94C15}
05C05 Trees
05C07 Degree sequences
05C10 Topological graph theory, imbedding [See also 57M15, 57M25]
05C12 Distance in graphs
05C15 Coloring of graphs and hypergraphs
05C17 Perfect graphs
05C20 Directed graphs (digraphs), tournaments
05C22 Signed, gain and biased graphs
05C25 Graphs and groups [See also 20F65]
05C30 Enumeration of graphs and maps
05C35 Extremal problems [See also 90C35]
05C38 Paths and cycles [See also 90B10]
05C40 Connectivity
05C45 Eulerian and Hamiltonian graphs
05C50 Graphs and matrices
05C55 Generalized Ramsey theory
05C60 Isomorphism problems (reconstruction conjecture, etc.)
05C62 Graph representations (geometric and intersection representations, etc.)
05C65 Hypergraphs
05C69 Dominating sets, independent sets, cliques
05C70 Factorization, matching, covering and packing
05C75 Structural characterization of types of graphs
05C78 Graph labelling (graceful graphs, bandwidth, etc.)
05C80 Random graphs
05C83 Graph minors
05C85 Graph algorithms [See also 68R10, 68W05]
05C90 Applications
05C99 None of the above, but in this section
05Dxx Extremal combinatorics
05D05 Extremal set theory
05D10 Ramsey theory
05D15 Transversal (matching) theory
05D40 Probabilistic methods
05D99 None of the above, but in this section
05Exx Algebraic combinatorics
05E05 Symmetric functions
05E10 Tableaux, representations of the symmetric group [See also 20C30]
05E15 Combinatorial problems concerning the classical groups [See also 22E45, 33C80]
05E20 Group actions on designs, geometries and codes
05E25 Group actions on posets and homology groups of posets [See also 06A11]
05E30 Association schemes, strongly regular graphs
05E35 Orthogonal polynomials [See also 33C45, 33C50, 33D45]
05E99 None of the above, but in this section

06–XX ORDER, LATTICES, ORDERED ALGEBRAIC STRUCTURES [See also 18B35]

06–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
06–01 Instructional exposition (textbooks, tutorial papers, etc.)
06–02 Research exposition (monographs, survey articles)
06–03 Historical (must also be assigned at least one classification number from Section 01)
06–04 Explicit machine computation and programs (not the theory of computation or programming)
06–06 Proceedings, conferences, collections, etc.
06Axx Ordered sets
06A05 Total order
06A06 Partial order, general
06A07 Combinatorics of partially ordered sets
06A11 Algebraic aspects of posets [See also 05E25]
06A12 Semilattices [See also 20M10; for topological semilattices see 22A26]
06A15 Galois correspondences, closure operators
06A99 None of the above, but in this section
06Bxx Lattices [See also 03G10]
06B05 Structure theory
06B10 Ideals, congruence relations
06B15 Representation theory
06B20 Varieties of lattices
06B23 Complete lattices, completions
06B25 Free lattices, projective lattices, word problems [See also 03D40, 08A50, 20F10]
06B30 Topological lattices, order topologies [See also 06F30, 22A26, 54F05, 54H12]
06B35 Continuous lattices and posets, applications [See also 06B30, 06D10, 06F30, 18B35, 22A26, 68Q55]
06B99 None of the above, but in this section
06Cxx Modular lattices, complemented lattices
06C05 Modular lattices, Desarguesian lattices
06C10 Semimodular lattices, geometric lattices
06C15 Complemented lattices, orthocomplemented lattices and posets [See also 03G12, 81P10]
06C20 Complemented modular lattices, continuous geometries
06C99 None of the above, but in this section
06Dxx Distributive lattices
06D05 Structure and representation theory
06D10 Complete distributivity
06D15 Pseudocomplemented lattices
06D20 Heyting algebras [See also 03G25]
06D22 Frames, locales {For topological questions see 54–XX}
06D25 Post algebras [See also 03G20]
06D30 De Morgan algebras, Łukasiewicz algebras [See also 03G20]
06D35 MV-algebras
06D50 Lattices and duality
06D72 Fuzzy lattices (soft algebras) and related topics
06D99 None of the above, but in this section
06Exx Boolean algebras (Boolean rings) [See also 03G05]
06E05 Structure theory
06E10 Chain conditions, complete algebras
06E15 Stone space and related constructions
06E20 Ring-theoretic properties [See also 16E50, 16G30]
06E25 Boolean algebras with additional operations (diagonalizable algebras, etc.) [See also 03G25, 03F45]
06E30 Boolean functions [See also 94C10]
06E99 None of the above, but in this section
06Fxx Ordered structures
06F05 Ordered semigroups and monoids [See also 20Mxx]
06F07 Quantales
06F10 Noether lattices
06F15 Ordered groups [See also 20F60]
06F20 Ordered abelian groups, Riesz groups, ordered linear spaces [See also 46A40]
06F25 Ordered rings, algebras, modules {For ordered fields, see 12J15; see also 13J25, 16W80}
06F30 Topological lattices, order topologies [See also 06B30, 22A26, 54F05, 54H12]
06F35 BCK-algebras, BCI-algebras [See also 03G25]
06F99 None of the above, but in this section

08–XX GENERAL ALGEBRAIC SYSTEMS

08–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
08–01 Instructional exposition (textbooks, tutorial papers, etc.)
08–02 Research exposition (monographs, survey articles)
08–03 Historical (must also be assigned at least one classification number from Section 01)
08–04 Explicit machine computation and programs (not the theory of computation or programming)
08–06 Proceedings, conferences, collections, etc.
08Axx Algebraic structures [See also 03C05]
08A02 Relational systems, laws of composition
08A05 Structure theory
08A30 Subalgebras, congruence relations
08A35 Automorphisms, endomorphisms
08A40 Operations, polynomials, primal algebras
08A45 Equational compactness
08A50 Word problems [See also 03D40, 06B25, 20F10, 68R15]
08A55 Partial algebras
08A60 Unary algebras
08A62 Finitary algebras
08A65 Infinitary algebras
08A68 Heterogeneous algebras
08A70 Applications of universal algebra in computer science
08A72 Fuzzy algebraic structures
08A99 None of the above, but in this section
08Bxx Varieties [See also 03C05]
08B05 Equational logic, Mal′cev (Mal′tsev) conditions
08B10 Congruence modularity, congruence distributivity
08B15 Lattices of varieties
08B20 Free algebras
08B25 Products, amalgamated products, and other kinds of limits and colimits [See also 18A30]

08B26 Subdirect products and subdirect irreducibility
08B30 Injectives, projectives
08B99 None of the above, but in this section
08Cxx Other classes of algebras
08C05 Categories of algebras [See also 18C05]
08C10 Axiomatic model classes [See also 03Cxx, in particular 03C60]
08C15 Quasivarieties
08C99 None of the above, but in this section

11–XX NUMBER THEORY
11–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
11–01 Instructional exposition (textbooks, tutorial papers, etc.)
11–02 Research exposition (monographs, survey articles)
11–03 Historical (must also be assigned at least one classification number from Section 01)
11–04 Explicit machine computation and programs (not the theory of computation or programming)
11–06 Proceedings, conferences, collections, etc.
11Axx Elementary number theory {For analogues in number fields, see 11R04}
11A05 Multiplicative structure; Euclidean algorithm; greatest common divisors
11A07 Congruences; primitive roots; residue systems
11A15 Power residues, reciprocity
11A25 Arithmetic functions; related numbers; inversion formulas
11A41 Primes
11A51 Factorization; primality
11A55 Continued fractions {For approximation results, see 11J70} [See also 11K50, 30B70, 40A15]
11A63 Radix representation; digital problems {For metric results, see 11K16}
11A67 Other representations
11A99 None of the above, but in this section
11Bxx Sequences and sets
11B05 Density, gaps, topology
11B13 Additive bases [See also 05B10]
11B25 Arithmetic progressions [See also 11N13]
11B34 Representation functions
11B37 Recurrences {For applications to special functions, see 33–XX}
11B39 Fibonacci and Lucas numbers and polynomials and generalizations
11B50 Sequences (mod m)
11B57 Farey sequences; the sequences $1^k, 2^k, \cdots$
11B65 Binomial coefficients; factorials; q-identities [See also 05A10, 05A30]
11B68 Bernoulli and Euler numbers and polynomials
11B73 Bell and Stirling numbers
11B75 Other combinatorial number theory
11B83 Special sequences and polynomials
11B85 Automata sequences
11B99 None of the above, but in this section
11Cxx Polynomials and matrices
11C08 Polynomials [See also 13F20]
11C20 Matrices, determinants [See also 15A36]
11C99 None of the above, but in this section
11Dxx Diophantine equations [See also 11Gxx, 14Gxx]
11D04 Linear equations
11D09 Quadratic and bilinear equations
11D25 Cubic and quartic equations
11D41 Higher degree equations; Fermat's equation
11D45 Counting solutions of Diophantine equations
11D57 Multiplicative and norm form equations
11D59 Thue-Mahler equations
11D61 Exponential equations
11D68 Rational numbers as sums of fractions
11D72 Equations in many variables [See also 11P55]
11D75 Diophantine inequalities [See also 11J25]
11D79 Congruences in many variables
11D85 Representation problems [See also 11P55]
11D88 p-adic and power series fields
11D99 None of the above, but in this section
11Exx Forms and linear algebraic groups [See also 19Gxx] {For quadratic forms in linear algebra, see 15A63}
11E04 Quadratic forms over general fields
11E08 Quadratic forms over local rings and fields
11E10 Forms over real fields
11E12 Quadratic forms over global rings and fields
11E16 General binary quadratic forms
11E20 General ternary and quaternary quadratic forms; forms of more than two variables
11E25 Sums of squares and representations by other particular quadratic forms
11E39 Bilinear and Hermitian forms
11E41 Class numbers of quadratic and Hermitian forms
11E45 Analytic theory (Epstein zeta functions; relations with automorphic forms and functions)
11E57 Classical groups [See also 14Lxx, 20Gxx]
11E70 K-theory of quadratic and Hermitian forms
11E72 Galois cohomology of linear algebraic groups [See also 20G10]
11E76 Forms of degree higher than two
11E81 Algebraic theory of quadratic forms; Witt groups and rings [See also 19G12, 19G24]
11E88 Quadratic spaces; Clifford algebras [See also 15A63, 15A66]
11E95 p-adic theory
11E99 None of the above, but in this section
11Fxx Discontinuous groups and automorphic forms [See also 11R39, 11S37, 14Gxx, 14Kxx, 22E50, 22E55, 30F35, 32Nxx] {For relations with quadratic forms, see 11E45}
11F03 Modular and automorphic functions
11F06 Structure of modular groups and generalizations; arithmetic groups [See also 20H05, 20H10, 22E40]
11F11 Modular forms, one variable
11F12 Automorphic forms, one variable
11F20 Dedekind eta function, Dedekind sums
11F22 Relationship to Lie algebras and finite simple groups
11F23 Relations with algebraic geometry and topology
11F25 Hecke-Petersson operators, differential operators (one variable)
11F27 Theta series; Weil representation
11F30 Fourier coefficients of automorphic forms
11F32 Modular correspondences, etc.
11F33 Congruences for modular and p-adic modular forms [See also 14G20, 22E50]
11F37 Forms of half-integer weight; nonholomorphic modular forms
11F41 Hilbert and Hilbert-Siegel modular groups and their modular and automorphic forms; Hilbert modular surfaces [See also 14J20]
11F46 Siegel modular groups and their modular and automorphic forms
11F50 Jacobi forms
11F52 Modular forms associated to Drinfel'd modules
11F55 Other groups and their modular and automorphic forms (several variables)
11F60 Hecke-Petersson operators, differential operators (several variables)
11F66 Dirichlet series and functional equations in connection with modular forms
11F67 Special values of automorphic L-series, periods of modular forms, cohomology, modular symbols
11F70 Representation-theoretic methods; automorphic representations over local and global fields
11F72 Spectral theory; Selberg trace formula
11F75 Cohomology of arithmetic groups
11F80 Galois representations
11F85 p-adic theory, local fields [See also 14G20, 22E50]
11F99 None of the above, but in this section
11Gxx Arithmetic algebraic geometry (Diophantine geometry) [See also 11Dxx, 14Gxx, 14Kxx]
11G05 Elliptic curves over global fields [See also 14H52]
11G07 Elliptic curves over local fields [See also 14G20, 14H52]
11G09 Drinfel'd modules; higher-dimensional motives, etc. [See also 14L05]
11G10 Abelian varieties of dimension > 1 [See also 14Kxx]
11G15 Complex multiplication and moduli of abelian varieties [See also 14K22]
11G16 Elliptic and modular units [See also 11R27]
11G18 Arithmetic aspects of modular and Shimura varieties [See also 14G35]
11G20 Curves over finite and local fields [See also 14H25]
11G25 Varieties over finite and local fields [See also 14G15, 14G20]
11G30 Curves of arbitrary genus or genus $\neq 1$ over global fields [See also 14H25]
11G35 Varieties over global fields [See also 14G25]
11G40 L-functions of varieties over global fields; Birch-Swinnerton-Dyer conjecture [See also 14G10]
11G45 Geometric class field theory [See also 11R37, 14C35, 19F05]
11G50 Heights [See also 14G40]
11G55 Polylogarithms and relations with K-theory
11G99 None of the above, but in this section
11Hxx Geometry of numbers {For applications in coding theory, see 94B75}
11H06 Lattices and convex bodies [See also 11P21, 52C05, 52C07]
11H16 Nonconvex bodies
11H31 Lattice packing and covering [See also 05B40, 52C15, 52C17]
11H46 Products of linear forms
11H50 Minima of forms
11H55 Quadratic forms (reduction theory, extreme forms, etc.)
11H56 Automorphism groups of lattices
11H60 Mean value and transfer theorems
11H71 Relations with coding theory
11H99 None of the above, but in this section
11Jxx Diophantine approximation, transcendental number theory [See also 11K60]
11J04 Homogeneous approximation to one number
11J06 Markov and Lagrange spectra and generalizations

11J13 Simultaneous homogeneous approximation, linear forms
11J17 Approximation by numbers from a fixed field
11J20 Inhomogeneous linear forms
11J25 Diophantine inequalities [See also 11D75]
11J54 Small fractional parts of polynomials and generalizations
11J61 Approximation in non-Archimedean valuations
11J68 Approximation to algebraic numbers
11J70 Continued fractions and generalizations [See also 11A55, 11K50]
11J71 Distribution modulo one [See also 11K06]
11J72 Irrationality; linear independence over a field
11J81 Transcendence (general theory)
11J82 Measures of irrationality and of transcendence
11J83 Metric theory
11J85 Algebraic independence; Gel'fond's method
11J86 Linear forms in logarithms; Baker's method
11J89 Transcendence theory of elliptic and abelian functions
11J91 Transcendence theory of other special functions
11J93 Transcendence theory of Drinfel'd and t-modules
11J95 Results involving abelian varieties
11J97 Analogues of methods in Nevanlinna theory (work of Vojta et al.)
11J99 None of the above, but in this section

11Kxx Probabilistic theory: distribution modulo 1; metric theory of algorithms
11K06 General theory of distribution modulo 1 [See also 11J71]
11K16 Normal numbers, radix expansions, etc. [See also 11A63]
11K31 Special sequences
11K36 Well-distributed sequences and other variations
11K38 Irregularities of distribution, discrepancy [See also 11Nxx]
11K41 Continuous, p-adic and abstract analogues
11K45 Pseudo-random numbers; Monte Carlo methods
11K50 Metric theory of continued fractions [See also 11A55, 11J70]
11K55 Metric theory of other algorithms and expansions; measure and Hausdorff dimension [See also 11N99, 28Dxx]
11K60 Diophantine approximation [See also 11Jxx]
11K65 Arithmetic functions [See also 11Nxx]
11K70 Harmonic analysis and almost periodicity
11K99 None of the above, but in this section

11Lxx Exponential sums and character sums {For finite fields, see 11Txx}
11L03 Trigonometric and exponential sums, general
11L05 Gauss and Kloosterman sums; generalizations
11L07 Estimates on exponential sums
11L10 Jacobsthal and Brewer sums; other complete character sums
11L15 Weyl sums
11L20 Sums over primes
11L26 Sums over arbitrary intervals
11L40 Estimates on character sums
11L99 None of the above, but in this section

11Mxx Zeta and L-functions: analytic theory
11M06 $\zeta(s)$ and $L(s,\chi)$
11M20 Real zeros of $L(s,\chi)$; results on $L(1,\chi)$
11M26 Nonreal zeros of $\zeta(s)$ and $L(s,\chi)$; Riemann and other hypotheses
11M35 Hurwitz and Lerch zeta functions
11M36 Selberg zeta functions and regularized determinants; applications to spectral theory, Dirichlet series, Eisenstein series, etc. Explicit formulas
11M38 Zeta and L-functions in characteristic p
11M41 Other Dirichlet series and zeta functions {For local and global ground fields, see 11R42, 11R52, 11S40, 11S45; for algebro-geometric methods, see 14G10; see also 11E45, 11F66, 11F70, 11F72}
11M45 Tauberian theorems [See also 40E05]
11M99 None of the above, but in this section

11Nxx Multiplicative number theory
11N05 Distribution of primes
11N13 Primes in progressions [See also 11B25]
11N25 Distribution of integers with specified multiplicative constraints
11N30 Turán theory [See also 30Bxx]
11N32 Primes represented by polynomials; other multiplicative structure of polynomial values
11N35 Sieves
11N36 Applications of sieve methods
11N37 Asymptotic results on arithmetic functions
11N45 Asymptotic results on counting functions for algebraic and topological structures
11N56 Rate of growth of arithmetic functions
11N60 Distribution functions associated with additive and positive multiplicative functions
11N64 Other results on the distribution of values or the characterization of arithmetic functions
11N69 Distribution of integers in special residue classes
11N75 Applications of automorphic functions and forms to multiplicative problems [See also 11Fxx]
11N80 Generalized primes and integers
11N99 None of the above, but in this section

11Pxx Additive number theory; partitions
11P05 Waring's problem and variants
11P21 Lattice points in specified regions
11P32 Goldbach-type theorems; other additive questions involving primes
11P55 Applications of the Hardy-Littlewood method [See also 11D85]
11P70 Inverse problems of additive number theory
11P81 Elementary theory of partitions [See also 05A17]
11P82 Analytic theory of partitions
11P83 Partitions; congruences and congruential restrictions
11P99 None of the above, but in this section

11Rxx Algebraic number theory: global fields {For complex multiplication, see 11G15}
11R04 Algebraic numbers; rings of algebraic integers
11R06 PV-numbers and generalizations; other special algebraic numbers
11R09 Polynomials (irreducibility, etc.)
11R11 Quadratic extensions
11R16 Cubic and quartic extensions
11R18 Cyclotomic extensions
11R20 Other abelian and metabelian extensions
11R21 Other number fields
11R23 Iwasawa theory
11R27 Units and factorization
11R29 Class numbers, class groups, discriminants
11R32 Galois theory
11R33 Integral representations related to algebraic numbers; Galois module structure of rings of integers [See also 20C10]
11R34 Galois cohomology [See also 12Gxx, 16H05, 19A31]
11R37 Class field theory
11R39 Langlands-Weil conjectures, nonabelian class field theory [See also 11Fxx, 22E55]
11R42 Zeta functions and L-functions of number fields [See also 11M41, 19F27]
11R44 Distribution of prime ideals [See also 11N05]
11R45 Density theorems
11R47 Other analytic theory [See also 11Nxx]
11R52 Quaternion and other division algebras: arithmetic, zeta functions
11R54 Other algebras and orders, and their zeta and L-functions [See also 11S45, 16H05, 16Kxx]
11R56 Adèle rings and groups
11R58 Arithmetic theory of algebraic function fields [See also 14–XX]
11R60 Cyclotomic function fields (class groups, Bernoulli objects, etc.)
11R65 Class groups and Picard groups of orders
11R70 K-theory of global fields [See also 19Fxx]
11R80 Totally real and totally positive fields [See also 12J15]
11R99 None of the above, but in this section

11Sxx Algebraic number theory: local and p-adic fields
11S05 Polynomials
11S15 Ramification and extension theory
11S20 Galois theory
11S23 Integral representations
11S25 Galois cohomology [See also 12Gxx, 16H05]
11S31 Class field theory; p-adic formal groups [See also 14L05]
11S37 Langlands-Weil conjectures, nonabelian class field theory [See also 11Fxx, 22E50]
11S40 Zeta functions and L-functions [See also 11M41, 19F27]
11S45 Algebras and orders, and their zeta functions [See also 11R52, 11R54, 16H05, 16Kxx]
11S70 K-theory of local fields [See also 19Fxx]
11S80 Other analytic theory (analogues of beta and gamma functions, p-adic integration, etc.)
11S85 Other nonanalytic theory
11S90 Prehomogeneous vector spaces
11S99 None of the above, but in this section

11Txx Finite fields and commutative rings (number-theoretic aspects)
11T06 Polynomials
11T22 Cyclotomy
11T23 Exponential sums
11T24 Other character sums and Gauss sums
11T30 Structure theory
11T55 Arithmetic theory of polynomial rings over finite fields
11T60 Finite upper half-planes
11T71 Algebraic coding theory; cryptography
11T99 None of the above, but in this section

11Uxx Connections with logic
11U05 Decidability [See also 03B25]
11U07 Ultraproducts [See also 03C20]
11U09 Model theory [See also 03Cxx]
11U10 Nonstandard arithmetic [See also 03H15]
11U99 None of the above, but in this section

11Yxx Computational number theory [See also 11–04]
11Y05 Factorization
11Y11 Primality
11Y16 Algorithms; complexity [See also 68Q25]
11Y35 Analytic computations
11Y40 Algebraic number theory computations
11Y50 Computer solution of Diophantine equations
11Y55 Calculation of integer sequences
11Y60 Evaluation of constants
11Y65 Continued fraction calculations
11Y70 Values of arithmetic functions; tables
11Y99 None of the above, but in this section
11Z05 Miscellaneous applications of number theory

12–XX FIELD THEORY AND POLYNOMIALS
12–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
12–01 Instructional exposition (textbooks, tutorial papers, etc.)
12–02 Research exposition (monographs, survey articles)
12–03 Historical (must also be assigned at least one classification number from Section 01)
12–04 Explicit machine computation and programs (not the theory of computation or programming)
12–06 Proceedings, conferences, collections, etc.
12Dxx Real and complex fields
12D05 Polynomials: factorization
12D10 Polynomials: location of zeros (algebraic theorems) {For the analytic theory, see 26C10, 30C15}
12D15 Fields related with sums of squares (formally real fields, Pythagorean fields, etc.) [See also 11Exx]
12D99 None of the above, but in this section
12Exx General field theory
12E05 Polynomials (irreducibility, etc.)
12E10 Special polynomials
12E12 Equations
12E15 Skew fields, division rings [See also 11R52, 11R54, 11S45, 16Kxx]
12E20 Finite fields (field-theoretic aspects)
12E25 Hilbertian fields; Hilbert's irreducibility theorem
12E30 Field arithmetic
12E99 None of the above, but in this section
12Fxx Field extensions
12F05 Algebraic extensions
12F10 Separable extensions, Galois theory
12F12 Inverse Galois theory
12F15 Inseparable extensions
12F20 Transcendental extensions
12F99 None of the above, but in this section
12Gxx Homological methods (field theory)
12G05 Galois cohomology [See also 14F22, 16H05, 16K50]
12G10 Cohomological dimension
12G99 None of the above, but in this section
12Hxx Differential and difference algebra
12H05 Differential algebra [See also 13Nxx]
12H10 Difference algebra [See also 39Axx]
12H20 Abstract differential equations [See also 34Mxx]
12H25 p-adic differential equations [See also 11S80, 14G20]
12H99 None of the above, but in this section
12Jxx Topological fields
12J05 Normed fields
12J10 Valued fields
12J12 Formally p-adic fields
12J15 Ordered fields
12J17 Topological semifields
12J20 General valuation theory [See also 13A18]
12J25 Non-Archimedean valued fields [See also 30G06, 32P05, 46S10, 47S10]
12J27 Krasner-Tate algebras [See mainly 32P05; see also 46S10, 47S10]
12J99 None of the above, but in this section
12Kxx Generalizations of fields
12K05 Near-fields [See also 16Y30]
12K10 Semifields [See also 16Y60]
12K99 None of the above, but in this section
12Lxx Connections with logic
12L05 Decidability [See also 03B25]
12L10 Ultraproducts [See also 03C20]
12L12 Model theory [See also 03C60]
12L15 Nonstandard arithmetic [See also 03H15]
12L99 None of the above, but in this section
12Y05 Computational aspects of field theory and polynomials

13–XX COMMUTATIVE RINGS AND ALGEBRAS
13–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
13–01 Instructional exposition (textbooks, tutorial papers, etc.)
13–02 Research exposition (monographs, survey articles)
13–03 Historical (must also be assigned at least one classification number from Section 01)
13–04 Explicit machine computation and programs (not the theory of computation or programming)
13–06 Proceedings, conferences, collections, etc.
13Axx General commutative ring theory
13A02 Graded rings [See also 16W50]
13A05 Divisibility
13A10 Radical theory
13A15 Ideals; multiplicative ideal theory
13A18 Valuations and their generalizations [See also 12J20]
13A30 Associated graded rings of ideals (Rees ring, form ring), analytic spread and related topics
13A35 Characteristic p methods (Frobenius endomorphism) and reduction to characteristic p; tight closure [See also 13B22]
13A50 Actions of groups on commutative rings; invariant theory [See also 14L24]
13A99 None of the above, but in this section
13Bxx Ring extensions and related topics
13B02 Extension theory
13B05 Galois theory
13B10 Morphisms
13B21 Integral dependence
13B22 Integral closure of rings and ideals [See also 13A35]; integrally closed rings, related rings (Japanese, etc.)
13B24 Going up; going down; going between
13B25 Polynomials over commutative rings [See also 11C08, 13F20, 13M10]
13B30 Quotients and localization
13B35 Completion [See also 13J10]
13B40 Étale and flat extensions; Henselization; Artin approximation [See also 13J15, 14B12, 14B25]
13B99 None of the above, but in this section
13Cxx Theory of modules and ideals
13C05 Structure, classification theorems
13C10 Projective and free modules and ideals [See also 19A13]
13C11 Injective and flat modules and ideals
13C12 Torsion modules and ideals
13C13 Other special types
13C14 Cohen-Macaulay modules [See also 13H10]
13C15 Dimension theory, depth, related rings (catenary, etc.)
13C20 Class groups [See also 11R29]
13C40 Linkage, complete intersections and determinantal ideals [See also 14M06, 14M10, 14M12]
13C99 None of the above, but in this section
13Dxx Homological methods {For noncommutative rings, see 16Exx; for general categories, see 18Gxx}
13D02 Syzygies and resolutions
13D03 (Co)homology of commutative rings and algebras (e.g., Hochschild, André-Quillen, cyclic, dihedral, etc.)
13D05 Homological dimension
13D07 Homological functors on modules (Tor, Ext, etc.)
13D10 Deformations and infinitesimal methods [See also 14B10, 14B12, 14D15, 32Gxx]
13D15 Grothendieck groups, K-theory [See also 14C35, 18F30, 19Axx, 19D50]
13D22 Homological conjectures (intersection theorems)
13D25 Complexes
13D30 Torsion theory [See also 13C12, 18E40]
13D40 Hilbert-Samuel and Hilbert-Kunz functions; Poincaré series
13D45 Local cohomology [See also 14B15]
13D99 None of the above, but in this section
13Exx Chain conditions, finiteness conditions
13E05 Noetherian rings and modules
13E10 Artinian rings and modules, finite-dimensional algebras
13E15 Rings and modules of finite generation or presentation; number of generators
13E99 None of the above, but in this section
13Fxx Arithmetic rings and other special rings
13F05 Dedekind, Prüfer and Krull rings and their generalizations
13F07 Euclidean rings and generalizations
13F10 Principal ideal rings
13F15 Factorial rings, unique factorization domains [See also 14M05]
13F20 Polynomial rings and ideals; rings of integer-valued polynomials [See also 11C08, 13B25]
13F25 Formal power series rings [See also 13J05]
13F30 Valuation rings [See also 13A18]
13F40 Excellent rings
13F45 Seminormal rings

13F50 Rings with straightening laws, Hodge algebras
13F55 Face and Stanley-Reisner rings; simplicial complexes [See also 55U10]
13F99 None of the above, but in this section
13G05 Integral domains
13Hxx Local rings and semilocal rings
13H05 Regular local rings
13H10 Special types (Cohen-Macaulay, Gorenstein, Buchsbaum, etc.) [See also 14M05]
13H15 Multiplicity theory and related topics [See also 14C17]
13H99 None of the above, but in this section
13Jxx Topological rings and modules [See also 16W60, 16W80]
13J05 Power series rings [See also 13F25]
13J07 Analytical algebras and rings [See also 32B05]
13J10 Complete rings, completion [See also 13B35]
13J15 Henselian rings [See also 13B40]
13J20 Global topological rings
13J25 Ordered rings [See also 06F25]
13J30 Real algebra [See also 12D15, 14Pxx]
13J99 None of the above, but in this section
13K05 Witt vectors and related rings
13L05 Applications of logic to commutative algebra [See also 03Cxx, 03Hxx]
13Mxx Finite commutative rings {For number-theoretic aspects, see 11Txx}
13M05 Structure
13M10 Polynomials
13M99 None of the above, but in this section
13Nxx Differential algebra [See also 12H05, 14F10]
13N05 Modules of differentials
13N10 Rings of differential operators and their modules [See also 16S32, 32C38]
13N15 Derivations
13N99 None of the above, but in this section
13Pxx Computational aspects of commutative algebra [See also 68W30]
13P05 Polynomials, factorization [See also 12Y05]
13P10 Polynomial ideals, Gröbner bases [See also 13F20]
13P99 None of the above, but in this section

14–XX ALGEBRAIC GEOMETRY

14–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
14–01 Instructional exposition (textbooks, tutorial papers, etc.)
14–02 Research exposition (monographs, survey articles)
14–03 Historical (must also be assigned at least one classification number from Section 01)
14–04 Explicit machine computation and programs (not the theory of computation or programming)
14–06 Proceedings, conferences, collections, etc.
14Axx Foundations
14A05 Relevant commutative algebra [See also 13–XX]
14A10 Varieties and morphisms
14A15 Schemes and morphisms
14A20 Generalizations (algebraic spaces, stacks)
14A22 Noncommutative algebraic geometry
14A25 Elementary questions
14A99 None of the above, but in this section
14Bxx Local theory
14B05 Singularities [See also 14E15, 14H20, 14J17, 32Sxx, 58Kxx]
14B07 Deformations of singularities [See also 14D15, 32S30]
14B10 Infinitesimal methods [See also 13D10]
14B12 Local deformation theory, Artin approximation, etc. [See also 13B40, 13D10]
14B15 Local cohomology [See also 13D45, 32C36]
14B20 Formal neighborhoods
14B25 Local structure of morphisms: étale, flat, etc. [See also 13B40]
14B99 None of the above, but in this section
14Cxx Cycles and subschemes
14C05 Parametrization (Chow and Hilbert schemes)
14C15 Chow groups and rings
14C17 Intersection theory, characteristic classes, intersection multiplicities [See also 13H15]
14C20 Divisors, linear systems, invertible sheaves
14C21 Pencils, nets, webs [See also 53A60]
14C22 Picard groups
14C25 Algebraic cycles
14C30 Transcendental methods, Hodge theory [See also 14D07, 32G20, 32J25, 32S35], Hodge conjecture
14C34 Torelli problem [See also 32G20]
14C35 Applications of methods of algebraic K-theory [See also 19Exx]
14C40 Riemann-Roch theorems [See also 19E20, 19L10]
14C99 None of the above, but in this section
14Dxx Families, fibrations
14D05 Structure of families (Picard-Lefschetz, monodromy, etc.)
14D06 Fibrations, degenerations
14D07 Variation of Hodge structures [See also 32G20]
14D10 Arithmetic ground fields (finite, local, global)
14D15 Formal methods; deformations [See also 13D10, 14B07, 32Gxx]
14D20 Algebraic moduli problems, moduli of vector bundles {For analytic moduli problems, see 32G13}
14D21 Applications of vector bundles and moduli spaces in mathematical physics (twistor theory, instantons, quantum field theory)
14D22 Fine and coarse moduli spaces
14D99 None of the above, but in this section
14Exx Birational geometry
14E05 Rational and birational maps
14E07 Birational automorphisms, Cremona group and generalizations
14E08 Rationality questions
14E15 Global theory and resolution of singularities [See also 14B05, 32S20, 32S45]
14E20 Coverings [See also 14H30]
14E22 Ramification problems [See also 11S15]
14E25 Embeddings
14E30 Minimal model program (Mori theory, extremal rays)
14E99 None of the above, but in this section
14Fxx (Co)homology theory [See also 13Dxx]
14F05 Vector bundles, sheaves, related constructions [See also 14H60, 14J60, 18F20, 32Lxx, 46M20]
14F10 Differentials and other special sheaves [See also 13Nxx, 32C38]
14F17 Vanishing theorems [See also 32L20]
14F20 Étale and other Grothendieck topologies and cohomologies
14F22 Brauer groups of schemes [See also 12G05, 16K50]
14F25 Classical real and complex cohomology
14F30 p-adic cohomology, crystalline cohomology
14F35 Homotopy theory; fundamental groups [See also 14H30]
14F40 de Rham cohomology [See also 14C30, 32C35, 32L10]
14F42 Motivic cohomology
14F43 Other algebro-geometric (co)homologies (e.g., intersection, equivariant, Lawson, Deligne (co)homologies)
14F45 Topological properties
14F99 None of the above, but in this section
14Gxx Arithmetic problems. Diophantine geometry [See also 11Dxx, 11Gxx]
14G05 Rational points
14G10 Zeta-functions and related questions [See also 11G40] (Birch-Swinnerton-Dyer conjecture)
14G15 Finite ground fields
14G20 Local ground fields
14G22 Rigid analytic geometry
14G25 Global ground fields
14G27 Other nonalgebraically closed ground fields
14G32 Universal profinite groups (relationship to moduli spaces, projective and moduli towers, Galois theory)
14G35 Modular and Shimura varieties [See also 11F41, 11F46, 11G18]
14G40 Arithmetic varieties and schemes; Arakelov theory; heights [See also 11G50]
14G50 Applications to coding theory and cryptography [See also 94A60, 94B27, 94B40]
14G99 None of the above, but in this section
14Hxx Curves
14H05 Algebraic functions; function fields [See also 11R58]
14H10 Families, moduli (algebraic)
14H15 Families, moduli (analytic) [See also 30F10, 32Gxx]
14H20 Singularities, local rings [See also 13Hxx, 14B05]
14H25 Arithmetic ground fields [See also 11Dxx, 11G05, 14Gxx]
14H30 Coverings, fundamental group [See also 14E20, 14F35]
14H37 Automorphisms
14H40 Jacobians, Prym varieties [See also 32G20]
14H42 Theta functions; Schottky problem [See also 14K25, 32G20]
14H45 Special curves and curves of low genus
14H50 Plane and space curves
14H51 Special divisors (gonality, Brill-Noether theory)
14H52 Elliptic curves [See also 11G05, 11G07, 14Kxx]
14H55 Riemann surfaces; Weierstrass points; gap sequences [See also 30Fxx]
14H60 Vector bundles on curves and their moduli [See also 14D20, 14F05]
14H70 Relationships with integrable systems
14H81 Relationships with physics
14H99 None of the above, but in this section
14Jxx Surfaces and higher-dimensional varieties {For analytic theory, see 32Jxx}
14J10 Families, moduli, classification: algebraic theory
14J15 Moduli, classification: analytic theory; relations with modular forms [See also 32G13]
14J17 Singularities [See also 14B05, 14E15]
14J20 Arithmetic ground fields [See also 11Dxx, 11G25, 11G35, 14Gxx]
14J25 Special surfaces {For Hilbert modular surfaces, see 14G35}
14J26 Rational and ruled surfaces
14J27 Elliptic surfaces
14J28 $K3$ surfaces and Enriques surfaces

14J29 Surfaces of general type
14J30 3-folds
14J32 Calabi-Yau manifolds, mirror symmetry
14J35 4-folds
14J40 n-folds ($n > 4$)
14J45 Fano varieties
14J50 Automorphisms of surfaces and higher-dimensional varieties
14J60 Vector bundles on surfaces and higher-dimensional varieties, and their moduli [See also 14D20, 14F05, 32Lxx]
14J70 Hypersurfaces
14J80 Topology of surfaces (Donaldson polynomials, Seiberg-Witten invariants)
14J81 Relationships with physics
14J99 None of the above, but in this section

14Kxx Abelian varieties and schemes
14K02 Isogeny
14K05 Algebraic theory
14K10 Algebraic moduli, classification [See also 11G15]
14K12 Subvarieties
14K15 Arithmetic ground fields [See also 11Dxx, 11Fxx, 11Gxx, 14Gxx]
14K20 Analytic theory; abelian integrals and differentials
14K22 Complex multiplication [See also 11G15]
14K25 Theta functions [See also 14H42]
14K30 Picard schemes, higher Jacobians [See also 14H40, 32G20]
14K99 None of the above, but in this section

14Lxx Algebraic groups {For linear algebraic groups, see 20Gxx; for Lie algebras, see 17B45}
14L05 Formal groups, p-divisible groups [See also 55N22]
14L10 Group varieties
14L15 Group schemes
14L17 Affine algebraic groups, hyperalgebra constructions [See also 17B45, 18D35]
14L24 Geometric invariant theory [See also 13A50]
14L30 Group actions on varieties or schemes (quotients) [See also 13A50, 14L24]
14L35 Classical groups (geometric aspects) [See also 20Gxx, 51N30]
14L40 Other algebraic groups (geometric aspects)
14L99 None of the above, but in this section

14Mxx Special varieties
14M05 Varieties defined by ring conditions (factorial, Cohen-Macaulay, seminormal) [See also 13F45, 13H10]
14M06 Linkage [See also 13C40]
14M07 Low codimension problems
14M10 Complete intersections [See also 13C40]
14M12 Determinantal varieties [See also 13C40]
14M15 Grassmannians, Schubert varieties, flag manifolds [See also 32M10, 51M35]
14M17 Homogeneous spaces and generalizations [See also 32M10, 53C30, 57T15]
14M20 Rational and unirational varieties
14M25 Toric varieties, Newton polyhedra [See also 52B20]
14M30 Supervarieties [See also 32C11, 58A50]
14M99 None of the above, but in this section

14Nxx Projective and enumerative geometry [See also 51–XX]
14N05 Projective techniques [See also 51N35]
14N10 Enumerative problems (combinatorial problems)
14N15 Classical problems, Schubert calculus
14N20 Configurations of linear subspaces
14N25 Varieties of low degree
14N30 Adjunction problems
14N35 Gromov-Witten invariants, quantum cohomology [See also 53D45]
14N99 None of the above, but in this section

14Pxx Real algebraic and real analytic geometry
14P05 Real algebraic sets [See also 12Dxx]
14P10 Semialgebraic sets and related spaces
14P15 Real analytic and semianalytic sets [See also 32B20, 32C05]
14P20 Nash functions and manifolds [See also 32C07, 58A07]
14P25 Topology of real algebraic varieties
14P99 None of the above, but in this section

14Qxx Computational aspects in algebraic geometry [See also 12Y05, 13Pxx, 68W30]
14Q05 Curves
14Q10 Surfaces, hypersurfaces
14Q15 Higher-dimensional varieties
14Q20 Effectivity
14Q99 None of the above, but in this section

14Rxx Affine geometry
14R05 Classification of affine varieties
14R10 Affine spaces (automorphisms, embeddings, exotic structures, cancellation problem)
14R15 Jacobian problem
14R20 Group actions on affine varieties [See also 13A50, 14L30]
14R25 Affine fibrations [See also 14D06]
14R99 None of the above, but in this section

15–XX LINEAR AND MULTILINEAR ALGEBRA; MATRIX THEORY

15–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
15–01 Instructional exposition (textbooks, tutorial papers, etc.)
15–02 Research exposition (monographs, survey articles)
15–03 Historical (must also be assigned at least one classification number from Section 01)
15–04 Explicit machine computation and programs (not the theory of computation or programming)
15–06 Proceedings, conferences, collections, etc.
15A03 Vector spaces, linear dependence, rank
15A04 Linear transformations, semilinear transformations
15A06 Linear equations
15A09 Matrix inversion, generalized inverses
15A12 Conditioning of matrices [See also 65F35]
15A15 Determinants, permanents, other special matrix functions [See also 19B10, 19B14]
15A18 Eigenvalues, singular values, and eigenvectors
15A21 Canonical forms, reductions, classification
15A22 Matrix pencils [See also 47A56]
15A23 Factorization of matrices
15A24 Matrix equations and identities
15A27 Commutativity
15A29 Inverse problems
15A30 Algebraic systems of matrices [See also 16S50, 20Gxx, 20Hxx]
15A33 Matrices over special rings (quaternions, finite fields, etc.)
15A36 Matrices of integers [See also 11C20]
15A39 Linear inequalities
15A42 Inequalities involving eigenvalues and eigenvectors
15A45 Miscellaneous inequalities involving matrices
15A48 Positive matrices and their generalizations; cones of matrices
15A51 Stochastic matrices
15A52 Random matrices
15A54 Matrices over function rings in one or more variables
15A57 Other types of matrices (Hermitian, skew-Hermitian, etc.)
15A60 Norms of matrices, numerical range, applications of functional analysis to matrix theory [See also 65F35, 65J05]
15A63 Quadratic and bilinear forms, inner products [See mainly 11Exx]
15A66 Clifford algebras, spinors
15A69 Multilinear algebra, tensor products
15A72 Vector and tensor algebra, theory of invariants [See also 13A50, 14L24]
15A75 Exterior algebra, Grassmann algebras
15A78 Other algebras built from modules
15A90 Applications of matrix theory to physics
15A99 Miscellaneous topics

16–XX ASSOCIATIVE RINGS AND ALGEBRAS {For the commutative case, see 13–XX}

16–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
16–01 Instructional exposition (textbooks, tutorial papers, etc.)
16–02 Research exposition (monographs, survey articles)
16–03 Historical (must also be assigned at least one classification number from Section 01)
16–04 Explicit machine computation and programs (not the theory of computation or programming)
16–06 Proceedings, conferences, collections, etc.

16Bxx General and miscellaneous
16B50 Category-theoretic methods and results (except as in 16D90) [See also 18–XX]
16B70 Applications of logic [See also 03Cxx]
16B99 None of the above, but in this section

16Dxx Modules, bimodules and ideals
16D10 General module theory
16D20 Bimodules
16D25 Ideals
16D30 Infinite-dimensional simple rings (except as in 16Kxx)
16D40 Free, projective, and flat modules and ideals [See also 19A13]
16D50 Injective modules, self-injective rings [See also 16L60]
16D60 Simple and semisimple modules, primitive rings and ideals
16D70 Structure and classification (except as in 16Gxx), direct sum decomposition, cancellation
16D80 Other classes of modules and ideals [See also 16G50]
16D90 Module categories [See also 16Gxx, 16S90]; module theory in a category-theoretic context; Morita equivalence and duality
16D99 None of the above, but in this section

16Exx Homological methods {For commutative rings, see 13Dxx; for general categories, see 18Gxx}
16E05 Syzygies, resolutions, complexes
16E10 Homological dimension
16E20 Grothendieck groups, K-theory, etc. [See also 18F30, 19Axx, 19D50]

16E30 Homological functors on modules (Tor, Ext, etc.)
16E40 (Co)homology of rings and algebras (e.g. Hochschild, cyclic, dihedral, etc.)
16E45 Differential graded algebras and applications
16E50 von Neumann regular rings and generalizations
16E60 Semihereditary and hereditary rings, free ideal rings, Sylvester rings, etc.
16E65 Homological conditions on rings (generalizations of regular, Gorenstein, Cohen-Macaulay rings, etc.)
16E99 None of the above, but in this section
16Gxx Representation theory of rings and algebras
16G10 Representations of Artinian rings
16G20 Representations of quivers and partially ordered sets
16G30 Representations of orders, lattices, algebras over commutative rings [See also 16H05]
16G50 Cohen-Macaulay modules
16G60 Representation type (finite, tame, wild, etc.)
16G70 Auslander-Reiten sequences (almost split sequences) and Auslander-Reiten quivers
16G99 None of the above, but in this section
16H05 Orders and arithmetic, separable algebras, Azumaya algebras [See also 11R52, 11R54, 11S45]
16Kxx Division rings and semisimple Artin rings [See also 12E15, 15A30]
16K20 Finite-dimensional {For crossed products, see 16S35}
16K40 Infinite-dimensional and general
16K50 Brauer groups [See also 12G05, 14F22]
16K99 None of the above, but in this section
16Lxx Local rings and generalizations
16L30 Noncommutative local and semilocal rings, perfect rings
16L60 Quasi-Frobenius rings [See also 16D50]
16L99 None of the above, but in this section
16Nxx Radicals and radical properties of rings
16N20 Jacobson radical, quasimultiplication
16N40 Nil and nilpotent radicals, sets, ideals, rings
16N60 Prime and semiprime rings [See also 16D60, 16U10]
16N80 General radicals and rings {For radicals in module categories, see 16S90}
16N99 None of the above, but in this section
16Pxx Chain conditions, growth conditions, and other forms of finiteness
16P10 Finite rings and finite-dimensional algebras {For semisimple, see 16K20; for commutative, see 11Txx, 13Mxx}
16P20 Artinian rings and modules
16P40 Noetherian rings and modules
16P50 Localization and Noetherian rings [See also 16U20]
16P60 Chain conditions on annihilators and summands: Goldie-type conditions [See also 16U20], Krull dimension
16P70 Chain conditions on other classes of submodules, ideals, subrings, etc.; coherence
16P90 Growth rate, Gel′fand-Kirillov dimension
16P99 None of the above, but in this section
16Rxx Rings with polynomial identity
16R10 T-ideals, identities, varieties of rings and algebras
16R20 Semiprime p.i. rings, rings embeddable in matrices over commutative rings
16R30 Trace rings and invariant theory
16R40 Identities other than those of matrices over commutative rings
16R50 Other kinds of identities (generalized polynomial, rational, involution)
16R99 None of the above, but in this section
16Sxx Rings and algebras arising under various constructions
16S10 Rings determined by universal properties (free algebras, coproducts, adjunction of inverses, etc.)
16S15 Finite generation, finite presentability, normal forms (diamond lemma, term-rewriting)
16S20 Centralizing and normalizing extensions
16S30 Universal enveloping algebras of Lie algebras [See mainly 17B35]
16S32 Rings of differential operators [See also 13N10, 32C38]
16S34 Group rings [See also 20C05, 20C07], Laurent polynomial rings
16S35 Twisted and skew group rings, crossed products
16S36 Ordinary and skew polynomial rings and semigroup rings [See also 20M25]
16S37 Quadratic and Koszul algebras
16S38 Rings arising from non-commutative algebraic geometry
16S40 Smash products of general Hopf actions [See also 16W30]
16S50 Endomorphism rings; matrix rings [See also 15–XX]
16S60 Rings of functions, subdirect products, sheaves of rings
16S70 Extensions of rings by ideals
16S80 Deformations of rings [See also 13D10, 14D15]
16S90 Maximal ring of quotients, torsion theories, radicals on module categories [See also 13D30, 18E40] {For radicals of rings, see 16Nxx}
16S99 None of the above, but in this section
16Uxx Conditions on elements
16U10 Integral domains
16U20 Ore rings, multiplicative sets, Ore localization
16U30 Divisibility, noncommutative UFDs
16U60 Units, groups of units
16U70 Center, normalizer (invariant elements)
16U80 Generalizations of commutativity
16U99 None of the above, but in this section
16Wxx Rings and algebras with additional structure
16W10 Rings with involution; Lie, Jordan and other nonassociative structures [See also 17B60, 17C50, 46Kxx]
16W20 Automorphisms and endomorphisms
16W22 Actions of groups and semigroups; invariant theory
16W25 Derivations, actions of Lie algebras
16W30 Coalgebras, bialgebras, Hopf algebras [See also 16S40, 57T05]; rings, modules, etc. on which these act
16W35 Ring-theoretic aspects of quantum groups [See also 17B37, 20G42, 81R50]
16W50 Graded rings and modules
16W55 "Super" (or "skew") structure [See also 17A70, 17Bxx, 17C70] {For exterior algebras, see 15A75; for Clifford algebras, see 11E88, 15A66}
16W60 Valuations, completions, formal power series and related constructions [See also 13Jxx]
16W70 Filtered rings; filtrational and graded techniques
16W80 Topological and ordered rings and modules [See also 06F25, 13Jxx]
16W99 None of the above, but in this section
16Yxx Generalizations {For nonassociative rings, see 17–XX}
16Y30 Near-rings [See also 12K05]
16Y60 Semirings [See also 12K10]
16Y99 None of the above, but in this section
16Z05 Computational aspects of associative rings [See also 68W30]

17–XX NONASSOCIATIVE RINGS AND ALGEBRAS

17–00 General reference works (handbooks, dictionaries, biblicgraphies, etc.)
17–01 Instructional exposition (textbooks, tutorial papers, etc.)
17–02 Research exposition (monographs, survey articles)
17–03 Historical (must also be assigned at least one classification number from Section 01)
*17–04 Explicit machine computation and programs (not the theory of computation or programming)
17–06 Proceedings, conferences, collections, etc.
17–08 Computational methods
17Axx General nonassociative rings
17A01 General theory
17A05 Power-associative rings
17A15 Noncommutative Jordan algebras
17A20 Flexible algebras
17A30 Algebras satisfying other identities
17A32 Leibniz algebras
17A35 Division algebras
17A36 Automorphisms, derivations, other operators
17A40 Ternary compositions
17A42 Other n-ary compositions ($n \geq 3$)
17A45 Quadratic algebras (but not quadratic Jordan algebras)
17A50 Free algebras
17A60 Structure theory
17A65 Radical theory
17A70 Superalgebras
17A75 Composition algebras
17A80 Valued algebras
17A99 None of the above, but in this section
17Bxx Lie algebras and Lie superalgebras {For Lie groups, see 22Exx}
17B01 Identities, free Lie (super)algebras
17B05 Structure theory
17B10 Representations, algebraic theory (weights)
17B15 Representations, analytic theory
17B20 Simple, semisimple, reductive (super)algebras (roots)
17B25 Exceptional (super)algebras
17B30 Solvable, nilpotent (super)algebras
17B35 Universal enveloping (super)algebras [See also 16S30]
17B37 Quantum groups (quantized enveloping algebras) and related deformations [See also 16W35, 20G42, 81R50, 82B23]
17B40 Automorphisms, derivations, other operators
17B45 Lie algebras of linear algebraic groups [See also 14Lxx and 20Gxx]
17B50 Modular Lie (super)algebras
17B55 Homological methods in Lie (super)algebras
17B56 Cohomology of Lie (super)algebras
17B60 Lie (super)algebras associated with other structures (associative, Jordan, etc.) [See also 16W10, 17C40, 17C50]
17B62 Lie bialgebras
17B63 Poisson algebras
17B65 Infinite-dimensional Lie (super)algebras [See also 22E65]

17B66 Lie algebras of vector fields and related (super) algebras
17B67 Kac-Moody (super)algebras (structure and representation theory)
17B68 Virasoro and related algebras
17B69 Vertex operators; vertex operator algebras and related structures
17B70 Graded Lie (super)algebras
17B75 Color Lie (super)algebras
17B80 Applications to integrable systems
17B81 Applications to physics
17B99 None of the above, but in this section

17Cxx Jordan algebras (algebras, triples and pairs)
17C05 Identities and free Jordan structures
17C10 Structure theory
17C17 Radicals
17C20 Simple, semisimple algebras
17C27 Idempotents, Peirce decompositions
17C30 Associated groups, automorphisms
17C36 Associated manifolds
17C37 Associated geometries
17C40 Exceptional Jordan structures
17C50 Jordan structures associated with other structures [See also 16W10]
17C55 Finite-dimensional structures
17C60 Division algebras
17C65 Jordan structures on Banach spaces and algebras [See also 46H70, 46L70]
17C70 Super structures
17C90 Applications to physics
17C99 None of the above, but in this section

17Dxx Other nonassociative rings and algebras
17D05 Alternative rings
17D10 Mal′cev (Mal′tsev) rings and algebras
17D15 Right alternative rings
17D20 (γ,δ)-rings, including $(1,-1)$-rings
17D25 Lie-admissible algebras
17D92 Genetic algebras
17D99 None of the above, but in this section

18–XX CATEGORY THEORY; HOMOLOGICAL ALGEBRA {For commutative rings see 13Dxx, for associative rings 16Exx, for groups 20Jxx, for topological groups and related structures 57Txx; see also 55Nxx and 55Uxx for algebraic topology}
18–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
18–01 Instructional exposition (textbooks, tutorial papers, etc.)
18–02 Research exposition (monographs, survey articles)
18–03 Historical (must also be assigned at least one classification number from Section 01)
18–04 Explicit machine computation and programs (not the theory of computation or programming)
18–06 Proceedings, conferences, collections, etc.

18Axx General theory of categories and functors
18A05 Definitions, generalizations
18A10 Graphs, diagram schemes, precategories [See especially 20L05]
18A15 Foundations, relations to logic and deductive systems [See also 03–XX]
18A20 Epimorphisms, monomorphisms, special classes of morphisms, null morphisms
18A22 Special properties of functors (faithful, full, etc.)
18A23 Natural morphisms, dinatural morphisms
18A25 Functor categories, comma categories
18A30 Limits and colimits (products, sums, directed limits, pushouts, fiber products, equalizers, kernels, ends and coends, etc.)
18A32 Factorization of morphisms, substructures, quotient structures, congruences, amalgams
18A35 Categories admitting limits (complete categories), functors preserving limits, completions
18A40 Adjoint functors (universal constructions, reflective subcategories, Kan extensions, etc.)
18A99 None of the above, but in this section

18Bxx Special categories
18B05 Category of sets, characterizations [See also 03–XX]
18B10 Category of relations, additive relations
18B15 Embedding theorems, universal categories [See also 18E20]
18B20 Categories of machines, automata, operative categories [See also 03D05, 68Qxx]
18B25 Topoi [See also 03G30]
18B30 Categories of topological spaces and continuous mappings [See also 54–XX]
18B35 Preorders, orders and lattices (viewed as categories) [See also 06–XX]
18B40 Groupoids, semigroupoids, semigroups, groups (viewed as categories) [See also 20Axx, 20L05, 20Mxx]
18B99 None of the above, but in this section

18Cxx Categories and theories
18C05 Equational categories [See also 03C05, 08C05]
18C10 Theories (e.g. algebraic theories), structure, and semantics [See also 03G30]
18C15 Triples (= standard construction, monad or triad), algebras for a triple, homology and derived functors for triples [See also 18Gxx]
18C20 Algebras and Kleisli categories associated with monads
18C30 Sketches and generalizations
18C35 Accessible and locally presentable categories
18C50 Categorical semantics of formal languages [See also 68Q55, 68Q65]
18C99 None of the above, but in this section

18Dxx Categories with structure
18D05 Double categories, 2-categories, bicategories and generalizations
18D10 Monoidal categories (= multiplicative categories), symmetric monoidal categories, braided categories [See also 19D23]
18D15 Closed categories (closed monoidal and Cartesian closed categories, etc.)
18D20 Enriched categories (over closed or monoidal categories)
18D25 Strong functors, strong adjunctions
18D30 Fibered categories
18D35 Structured objects in a category (group objects, etc.)
18D50 Operads [See also 55P48]
18D99 None of the above, but in this section

18Exx Abelian categories
18E05 Preadditive, additive categories
18E10 Exact categories, abelian categories
18E15 Grothendieck categories
18E20 Embedding theorems [See also 18B15]
18E25 Derived functors and satellites
18E30 Derived categories, triangulated categories
18E35 Localization of categories
18E40 Torsion theories, radicals [See also 13D30, 16S90]
18E99 None of the above, but in this section

18Fxx Categories and geometry
18F05 Local categories and functors
18F10 Grothendieck topologies [See also 14F20]
18F15 Abstract manifolds and fiber bundles [See also 55Rxx, 57Pxx]
18F20 Presheaves and sheaves [See also 14F05, 32C35, 32L10, 54B40, 55N30]
18F25 Algebraic K-theory and L-theory [See also 11Exx, 11R70, 11S70, 12–XX, 13D15, 14Cxx, 16E20, 19–XX, 46L80, 57R65, 57R67]
18F30 Grothendieck groups [See also 13D15, 16E20, 19Axx]
18F99 None of the above, but in this section

18Gxx Homological algebra [See also 13Dxx, 16Exx, 20Jxx, 55Nxx, 55Uxx, 57Txx]
18G05 Projectives and injectives [See also 13C10, 13C11, 16D40, 16D50]
18G10 Resolutions; derived functors [See also 13D02, 16E05, 18E25]
18G15 Ext and Tor, generalizations, Künneth formula [See also 55U25]
18G20 Homological dimension [See also 13D05, 16E10]
18G25 Relative homological algebra, projective classes
18G30 Simplicial sets, simplicial objects (in a category) [See also 55U10]
18G35 Chain complexes [See also 18E30, 55U15]
18G40 Spectral sequences, hypercohomology [See also 55Txx]
18G50 Nonabelian homological algebra
18G55 Homotopical algebra
18G60 Other (co)homology theories [See also 19D55, 46L80, 58J20, 58J22]
18G99 None of the above, but in this section

19–XX K-THEORY [See also 16E20, 18F25]
19–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
19–01 Instructional exposition (textbooks, tutorial papers, etc.)
19–02 Research exposition (monographs, survey articles)
19–03 Historical (must also be assigned at least one classification number from Section 01)
19–04 Explicit machine computation and programs (not the theory of computation or programming)
19–06 Proceedings, conferences, collections, etc.

19Axx Grothendieck groups and K_0 [See also 13D15, 18F30]
19A13 Stability for projective modules [See also 13C10]
19A15 Efficient generation
19A22 Frobenius induction, Burnside and representation rings
19A31 K_0 of group rings and orders
19A49 K_0 of other rings
19A99 None of the above, but in this section

19Bxx Whitehead groups and K_1
19B10 Stable range conditions
19B14 Stability for linear groups
19B28 K_1 of group rings and orders [See also 57Q10]
19B37 Congruence subgroup problems [See also 20H05]
19B99 None of the above, but in this section

19Cxx **Steinberg groups and K_2**
19C09 Central extensions and Schur multipliers
19C20 Symbols, presentations and stability of K_2
19C30 K_2 and the Brauer group
19C40 Excision for K_2
19C99 None of the above, but in this section
19Dxx **Higher algebraic K-theory**
19D06 Q- and plus-constructions
19D10 Algebraic K-theory of spaces
19D23 Symmetric monoidal categories [See also 18D10]
19D25 Karoubi-Villamayor-Gersten K-theory
19D35 Negative K-theory, NK and Nil
19D45 Higher symbols, Milnor K-theory
19D50 Computations of higher K-theory of rings [See also 13D15, 16E20]
19D55 K-theory and homology; cyclic homology and cohomology [See also 18G60]
19D99 None of the above, but in this section
19Exx **K-theory in geometry**
19E08 K-theory of schemes [See also 14C35]
19E15 Algebraic cycles and motivic cohomology [See also 14C25, 14C35]
19E20 Relations with cohomology theories [See also 14Fxx]
19E99 None of the above, but in this section
19Fxx **K-theory in number theory [See also 11R70, 11S70]**
19F05 Generalized class field theory [See also 11G45]
19F15 Symbols and arithmetic [See also 11R37]
19F27 Étale cohomology, higher regulators, zeta and L-functions [See also 11G40, 11R42, 11S40, 14F20, 14G10]
19F99 None of the above, but in this section
19Gxx **K-theory of forms [See also 11Exx]**
19G05 Stability for quadratic modules
19G12 Witt groups of rings [See also 11E81]
19G24 L-theory of group rings [See also 11E81]
19G38 Hermitian K-theory, relations with K-theory of rings
19G99 None of the above, but in this section
19Jxx **Obstructions from topology**
19J05 Finiteness and other obstructions in K_0
19J10 Whitehead (and related) torsion
19J25 Surgery obstructions [See also 57R67]
19J35 Obstructions to group actions
19J99 None of the above, but in this section
19Kxx **K-theory and operator algebras [See mainly 46L80, and also 46M20]**
19K14 K_0 as an ordered group, traces
19K33 EXT and K-homology [See also 55N22]
19K35 Kasparov theory (KK-theory) [See also 58J22]
19K56 Index theory [See also 58J20, 58J22]
19K99 None of the above, but in this section
19Lxx **Topological K-theory [See also 55N15, 55R50, 55S25]**
19L10 Riemann-Roch theorems, Chern characters
19L20 J-homomorphism, Adams operations [See also 55Q50]
19L41 Connective K-theory, cobordism [See also 55N22]
19L47 Equivariant K-theory [See also 55N91, 55P91, 55Q91, 55R91, 55S91]
19L64 Computations, geometric applications
19L99 None of the above, but in this section
19M05 **Miscellaneous applications of K-theory**

20–XX **GROUP THEORY AND GENERALIZATIONS**
20–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
20–01 Instructional exposition (textbooks, tutorial papers, etc.)
20–02 Research exposition (monographs, survey articles)
20–03 Historical (must also be assigned at least one classification number from Section 01)
20–04 Explicit machine computation and programs (not the theory of computation or programming)
20–06 Proceedings, conferences, collections, etc.
20Axx **Foundations**
20A05 Axiomatics and elementary properties
20A10 Metamathematical considerations {For word problems, see 20F10}
20A15 Applications of logic to group theory
20A99 None of the above, but in this section
20Bxx **Permutation groups**
20B05 General theory for finite groups
20B07 General theory for infinite groups
20B10 Characterization theorems
20B15 Primitive groups
20B20 Multiply transitive finite groups
20B22 Multiply transitive infinite groups
20B25 Finite automorphism groups of algebraic, geometric, or combinatorial structures [See also 05Bxx, 12F10, 20G40, 20H30, 51–XX]
20B27 Infinite automorphism groups [See also 12F10]
20B30 Symmetric groups
20B35 Subgroups of symmetric groups
20B40 Computational methods
20B99 None of the above, but in this section
20Cxx **Representation theory of groups [See also 19A22 (for representation rings and Burnside rings)]**
20C05 Group rings of finite groups and their modules [See also 16S34]
20C07 Group rings of infinite groups and their modules [See also 16S34]
20C08 Hecke algebras and their representations
20C10 Integral representations of finite groups
20C11 p-adic representations of finite groups
20C12 Integral representations of infinite groups
20C15 Ordinary representations and characters
20C20 Modular representations and characters
20C25 Projective representations and multipliers
20C30 Representations of finite symmetric groups
20C32 Representations of infinite symmetric groups
20C33 Representations of finite groups of Lie type
20C34 Representations of sporadic groups
20C35 Applications of group representations to physics
20C40 Computational methods
20C99 None of the above, but in this section
20Dxx **Abstract finite groups**
20D05 Classification of simple and nonsolvable groups
20D06 Simple groups: alternating groups and groups of Lie type [See also 20Gxx]
20D08 Simple groups: sporadic groups
20D10 Solvable groups, theory of formations, Schunck classes, Fitting classes, π-length, ranks [See also 20F17]
20D15 Nilpotent groups, p-groups
20D20 Sylow subgroups, Sylow properties, π-groups, π-structure
20D25 Special subgroups (Frattini, Fitting, etc.)
20D30 Series and lattices of subgroups
20D35 Subnormal subgroups
20D40 Products of subgroups
20D45 Automorphisms
20D60 Arithmetic and combinatorial problems
20D99 None of the above, but in this section
20Exx **Structure and classification of infinite or finite groups**
20E05 Free nonabelian groups
20E06 Free products, free products with amalgamation, Higman-Neumann-Neumann extensions, and generalizations
20E07 Subgroup theorems; subgroup growth
20E08 Groups acting on trees [See also 20F65]
20E10 Quasivarieties and varieties of groups
20E15 Chains and lattices of subgroups, subnormal subgroups [See also 20F22]
20E18 Limits, profinite groups
20E22 Extensions, wreath products, and other compositions [See also 20J05]
20E25 Local properties
20E26 Residual properties and generalizations
20E28 Maximal subgroups
20E32 Simple groups [See also 20D05]
20E34 General structure theorems
20E36 General theorems concerning automorphisms of groups
20E42 Groups with a BN-pair; buildings [See also 51E24]
20E45 Conjugacy classes
20E99 None of the above, but in this section
20Fxx **Special aspects of infinite or finite groups**
20F05 Generators, relations, and presentations
20F06 Cancellation theory; application of van Kampen diagrams [See also 57M05]
20F10 Word problems, other decision problems, connections with logic and automata [See also 03B25, 03D05, 03D40, 06B25, 08A50, 68Q70]
20F12 Commutator calculus
20F14 Derived series, central series, and generalizations
20F16 Solvable groups, supersolvable groups [See also 20D10]
20F17 Formations of groups, Fitting classes [See also 20D10]
20F18 Nilpotent groups [See also 20D15]
20F19 Generalizations of solvable and nilpotent groups
20F22 Other classes of groups defined by subgroup chains
20F24 FC-groups and their generalizations
20F28 Automorphism groups of groups [See also 20E36]
20F29 Representations of groups as automorphism groups of algebraic systems
20F34 Fundamental groups and their automorphisms [See also 57M05, 57Sxx]
20F36 Braid groups; Artin groups
20F38 Other groups related to topology or analysis
20F40 Associated Lie structures
20F45 Engel conditions
20F50 Periodic groups; locally finite groups
20F55 Reflection and Coxeter groups [See also 22E40, 51F15]
20F60 Ordered groups [See mainly 06F15]
20F65 Geometric group theory [See also 05C25, 20E08, 57Mxx]
20F67 Hyperbolic groups and nonpositively curved groups

20F69 Asymptotic properties of groups
20F99 None of the above, but in this section
20Gxx Linear algebraic groups (classical groups) {For arithmetic theory, see 11E57, 11H56; for geometric theory, see 14Lxx, 22Exx; for other methods in representation theory, see 15A30, 22E45, 22E46, 22E47, 22E50, 22E55}
20G05 Representation theory
20G10 Cohomology theory
20G15 Linear algebraic groups over arbitrary fields
20G20 Linear algebraic groups over the reals, the complexes, the quaternions
20G25 Linear algebraic groups over local fields and their integers
20G30 Linear algebraic groups over global fields and their integers
20G35 Linear algebraic groups over adèles and other rings and schemes
20G40 Linear algebraic groups over finite fields
20G42 Quantum groups (quantized function algebras) and their representations [See also 16W35, 17B37, 81R50]
20G45 Applications to physics
20G99 None of the above, but in this section
20Hxx Other groups of matrices [See also 15A30]
20H05 Unimodular groups, congruence subgroups [See also 11F06, 19B37, 22E40, 51F20]
20H10 Fuchsian groups and their generalizations [See also 11F06, 22E40, 30F35, 32Nxx]
20H15 Other geometric groups, including crystallographic groups [See also 51–XX, especially 51F15, and 82D25]
20H20 Other matrix groups over fields
20H25 Other matrix groups over rings
20H30 Other matrix groups over finite fields
20H99 None of the above, but in this section
20Jxx Connections with homological algebra and category theory
20J05 Homological methods in group theory
20J06 Cohomology of groups
20J15 Category of groups
20J99 None of the above, but in this section
20Kxx Abelian groups
20K01 Finite abelian groups
20K10 Torsion groups, primary groups and generalized primary groups
20K15 Torsion-free groups, finite rank
20K20 Torsion-free groups, infinite rank
20K21 Mixed groups
20K25 Direct sums, direct products, etc.
20K27 Subgroups
20K30 Automorphisms, homomorphisms, endomorphisms, etc.
20K35 Extensions
20K40 Homological and categorical methods
20K45 Topological methods [See also 22A05, 22B05]
20K99 None of the above, but in this section
20L05 Groupoids (i.e. small categories in which all morphisms are isomorphisms) {For sets with a single binary operation, see 20N02; for topological groupoids, see 22A22, 58H05}
20Mxx Semigroups
20M05 Free semigroups, generators and relations, word problems
20M07 Varieties of semigroups
20M10 General structure theory
20M11 Radical theory
20M12 Ideal theory
20M14 Commutative semigroups
20M15 Mappings of semigroups
20M17 Regular semigroups
20M18 Inverse semigroups
20M19 Orthodox semigroups
20M20 Semigroups of transformations, etc. [See also 47D03, 47H20, 54H15]
20M25 Semigroup rings, multiplicative semigroups of rings [See also 16S36, 16Y60]
20M30 Representation of semigroups; actions of semigroups on sets
20M35 Semigroups in automata theory, linguistics, etc. [See also 03D05, 68Q70, 68T50]
20M50 Connections of semigroups with homological algebra and category theory
20M99 None of the above, but in this section
20Nxx Other generalizations of groups
20N02 Sets with a single binary operation (groupoids)
20N05 Loops, quasigroups [See also 05Bxx]
20N10 Ternary systems (heaps, semiheaps, heapoids, etc.)
20N15 n-ary systems ($n \geq 3$)
20N20 Hypergroups
20N25 Fuzzy groups [See also 03E72]
20N99 None of the above, but in this section
20P05 Probabilistic methods in group theory [See also 60Bxx]

22–XX TOPOLOGICAL GROUPS, LIE GROUPS {For transformation groups, see 54H15, 57Sxx, 58–XX. For abstract harmonic analysis, see 43–XX}
22–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
22–01 Instructional exposition (textbooks, tutorial papers, etc.)
22–02 Research exposition (monographs, survey articles)
22–03 Historical (must also be assigned at least one classification number from Section 01)
22–04 Explicit machine computation and programs (not the theory of computation or programming)
22–06 Proceedings, conferences, collections, etc.
22Axx Topological and differentiable algebraic systems {For topological rings and fields, see 12Jxx, 13Jxx, 16W80}
22A05 Structure of general topological groups
22A10 Analysis on general topological groups
22A15 Structure of topological semigroups
22A20 Analysis on topological semigroups
22A22 Topological groupoids (including differentiable and Lie groupoids) [See also 58H05]
22A25 Representations of general topological groups and semigroups
22A26 Topological semilattices, lattices and applications [See also 06B30, 06B35, 06F30]
22A30 Other topological algebraic systems and their representations
22A99 None of the above, but in this section
22Bxx Locally compact abelian groups (LCA groups)
22B05 General properties and structure of LCA groups
22B10 Structure of group algebras of LCA groups
22B99 None of the above, but in this section
22C05 Compact groups
22Dxx Locally compact groups and their algebras
22D05 General properties and structure of locally compact groups
22D10 Unitary representations of locally compact groups
22D12 Other representations of locally compact groups
22D15 Group algebras of locally compact groups
22D20 Representations of group algebras
22D25 C^*-algebras and W^*-algebras in relation to group representations [See also 46Lxx]
22D30 Induced representations
22D35 Duality theorems
22D40 Ergodic theory on groups [See also 28Dxx]
22D45 Automorphism groups of locally compact groups
22D99 None of the above, but in this section
22Exx Lie groups {For the topology of Lie groups and homogeneous spaces, see 57Sxx, 57Txx; for analysis thereon, see 43A80, 43A85, 43A90}
22E05 Local Lie groups [See also 34–XX, 35–XX, 58H05]
22E10 General properties and structure of complex Lie groups [See also 32M05]
22E15 General properties and structure of real Lie groups
22E20 General properties and structure of other Lie groups
22E25 Nilpotent and solvable Lie groups
22E27 Representations of nilpotent and solvable Lie groups (special orbital integrals, non-type I representations, etc.)
22E30 Analysis on real and complex Lie groups [See also 33C80, 43–XX]
22E35 Analysis on p-adic Lie groups
22E40 Discrete subgroups of Lie groups [See also 20Hxx, 32Nxx]
22E41 Continuous cohomology [See also 57R32, 57Txx, 58H10]
22E43 Structure and representation of the Lorentz group
22E45 Representations of Lie and linear algebraic groups over real fields: analytic methods {For the purely algebraic theory, see 20G05}
22E46 Semisimple Lie groups and their representations
22E47 Representations of Lie and real algebraic groups: algebraic methods (Verma modules, etc.) [See also 17B10]
22E50 Representations of Lie and linear algebraic groups over local fields [See also 20G05]
22E55 Representations of Lie and linear algebraic groups over global fields and adèle rings [See also 20G05]
22E60 Lie algebras of Lie groups {For the algebraic theory of Lie algebras, see 17Bxx}
22E65 Infinite-dimensional Lie groups and their Lie algebras [See also 17B65, 58B25, 58H05]
22E67 Loop groups and related constructions, group-theoretic treatment [See also 58D05]
22E70 Applications of Lie groups to physics; explicit representations [See also 81R05, 81R10]
22E99 None of the above, but in this section
22Fxx Noncompact transformation groups
22F05 General theory of group and pseudogroup actions {For topological properties of spaces with an action, see 57S20}
22F10 Measurable group actions [See also 22D40, 28Dxx, 37Axx]
22F30 Homogeneous spaces {For general actions on manifolds or preserving geometrical structures, see 57M60, 57Sxx; for discrete subgroups of Lie groups see especially 22E40}

22F50 Groups as automorphisms of other structures

26–XX REAL FUNCTIONS [See also 54C30]
26–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
26–01 Instructional exposition (textbooks, tutorial papers, etc.)
26–02 Research exposition (monographs, survey articles)
26–03 Historical (must also be assigned at least one classification number from Section 01)
26–04 Explicit machine computation and programs (not the theory of computation or programming)
26–06 Proceedings, conferences, collections, etc.
26Axx Functions of one variable
26A03 Foundations: limits and generalizations, elementary topology of the line
26A06 One-variable calculus
26A09 Elementary functions
26A12 Rate of growth of functions, orders of infinity, slowly varying functions [See also 26A48]
26A15 Continuity and related questions (modulus of continuity, semicontinuity, discontinuities, etc.) {For properties determined by Fourier coefficients, see 42A16; for those determined by approximation properties, see 41A25, 41A27}
26A16 Lipschitz (Hölder) classes
26A18 Iteration [See also 37Bxx, 37Cxx, 37Exx, 39B12, 47H10, 54H25]
26A21 Classification of real functions; Baire classification of sets and functions [See also 03E15, 28A05, 54C50]
26A24 Differentiation (functions of one variable): general theory, generalized derivatives, mean-value theorems [See also 28A15]
26A27 Nondifferentiability (nondifferentiable functions, points of nondifferentiability), discontinuous derivatives
26A30 Singular functions, Cantor functions, functions with other special properties
26A33 Fractional derivatives and integrals
26A36 Antidifferentiation
26A39 Denjoy and Perron integrals, other special integrals
26A42 Integrals of Riemann, Stieltjes and Lebesgue type [See also 28–XX]
26A45 Functions of bounded variation, generalizations
26A46 Absolutely continuous functions
26A48 Monotonic functions, generalizations
26A51 Convexity, generalizations
26A99 None of the above, but in this section
26Bxx Functions of several variables
26B05 Continuity and differentiation questions
26B10 Implicit function theorems, Jacobians, transformations with several variables
26B12 Calculus of vector functions
26B15 Integration: length, area, volume [See also 28A75, 51M25]
26B20 Integral formulas (Stokes, Gauss, Green, etc.)
26B25 Convexity, generalizations
26B30 Absolutely continuous functions, functions of bounded variation
26B35 Special properties of functions of several variables, Hölder conditions, etc.
26B40 Representation and superposition of functions
26B99 None of the above, but in this section
26Cxx Polynomials, rational functions
26C05 Polynomials: analytic properties, etc. [See also 12Dxx, 12Exx]
26C10 Polynomials: location of zeros [See also 12D10, 30C15, 65H05]
26C15 Rational functions [See also 14Pxx]
26C99 None of the above, but in this section
26Dxx Inequalities {For maximal function inequalities, see 42B25; for functional inequalities, see 39B72; for probabilistic inequalities, see 60E15}
26D05 Inequalities for trigonometric functions and polynomials
26D07 Inequalities involving other types of functions
26D10 Inequalities involving derivatives and differential and integral operators
26D15 Inequalities for sums, series and integrals
26D20 Other analytical inequalities
26D99 None of the above, but in this section
26Exx Miscellaneous topics [See also 58Cxx]
26E05 Real-analytic functions [See also 32B05, 32C05]
26E10 C^∞-functions, quasi-analytic functions [See also 58C25]
26E15 Calculus of functions on infinite-dimensional spaces [See also 46G05, 58Cxx]
26E20 Calculus of functions taking values in infinite-dimensional spaces [See also 46E40, 46G10, 58Cxx]
26E25 Set-valued functions [See also 28B20, 54C60] {For nonsmooth analysis, see 49J52, 58Cxx, 90Cxx}
26E30 Non-Archimedean analysis [See also 12J25]
26E35 Nonstandard analysis [See also 03H05, 28E05, 54J05]
26E40 Constructive real analysis [See also 03F60]
26E50 Fuzzy real analysis [See also 03E72, 28E10]
26E60 Means [See also 47A64]
26E99 None of the above, but in this section

28–XX MEASURE AND INTEGRATION {For analysis on manifolds, see 58–XX}
28–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
28–01 Instructional exposition (textbooks, tutorial papers, etc.)
28–02 Research exposition (monographs, survey articles)
28–03 Historical (must also be assigned at least one classification number from Section 01)
28–04 Explicit machine computation and programs (not the theory of computation or programming)
28–06 Proceedings, conferences, collections, etc.
28Axx Classical measure theory
28A05 Classes of sets (Borel fields, σ-rings, etc.), measurable sets, Suslin sets, analytic sets [See also 03E15, 26A21, 54H05]
28A10 Real- or complex-valued set functions
28A12 Contents, measures, outer measures, capacities
28A15 Abstract differentiation theory, differentiation of set functions [See also 26A24]
28A20 Measurable and nonmeasurable functions, sequences of measurable functions, modes of convergence
28A25 Integration with respect to measures and other set functions
28A33 Spaces of measures, convergence of measures [See also 46E27, 60Bxx]
28A35 Measures and integrals in product spaces
28A50 Integration and disintegration of measures
28A51 Lifting theory [See also 46G15]
28A60 Measures on Boolean rings, measure algebras [See also 54H10]
28A75 Length, area, volume, other geometric measure theory [See also 26B15, 49Q15]
28A78 Hausdorff and packing measures
28A80 Fractals [See also 37Fxx]
28A99 None of the above, but in this section
28Bxx Set functions, measures and integrals with values in abstract spaces
28B05 Vector-valued set functions, measures and integrals [See also 46G10]
28B10 Group- or semigroup-valued set functions, measures and integrals
28B15 Set functions, measures and integrals with values in ordered spaces
28B20 Set-valued set functions and measures; integration of set-valued functions; measurable selections [See also 26E25, 54C60, 54C65, 91B14]
28B99 None of the above, but in this section
28Cxx Set functions and measures on spaces with additional structure [See also 46G12, 58C35, 58D20]
28C05 Integration theory via linear functionals (Radon measures, Daniell integrals, etc.), representing set functions and measures
28C10 Set functions and measures on topological groups, Haar measures, invariant measures [See also 22Axx, 43A05]
28C15 Set functions and measures on topological spaces (regularity of measures, etc.)
28C20 Set functions and measures and integrals in infinite-dimensional spaces (Wiener measure, Gaussian measure, etc.) [See also 46G12, 58C35, 58D20, 60B11]
28C99 None of the above, but in this section
28Dxx Measure-theoretic ergodic theory [See also 11K50, 11K55, 22D40, 37Axx, 47A35, 54H20, 60Fxx, 60G10]
28D05 Measure-preserving transformations
28D10 One-parameter continuous families of measure-preserving transformations
28D15 General groups of measure-preserving transformations
28D20 Entropy and other invariants
28D99 None of the above, but in this section
28Exx Miscellaneous topics in measure theory
28E05 Nonstandard measure theory [See also 03H05, 26E35]
28E10 Fuzzy measure theory [See also 03E72, 26E50, 94D05]
28E15 Other connections with logic and set theory
28E99 None of the above, but in this section

30–XX FUNCTIONS OF A COMPLEX VARIABLE {For analysis on manifolds, see 58–XX}
30–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
30–01 Instructional exposition (textbooks, tutorial papers, etc.)
30–02 Research exposition (monographs, survey articles)
30–03 Historical (must also be assigned at least one classification number from Section 01)
30–04 Explicit machine computation and programs (not the theory of computation or programming)
30–06 Proceedings, conferences, collections, etc.
30Axx General properties
30A05 Monogenic properties of complex functions (including polygenic and areolar monogenic functions)
30A10 Inequalities in the complex domain
30A99 None of the above, but in this section

30Bxx **Series expansions**
30B10 Power series (including lacunary series)
30B20 Random power series
30B30 Boundary behavior of power series, over-convergence
30B40 Analytic continuation
30B50 Dirichlet series and other series expansions, exponential series [See also 11M41, 42–XX]
30B60 Completeness problems, closure of a system of functions
30B70 Continued fractions [See also 11A55, 40A15]
30B99 None of the above, but in this section
30Cxx **Geometric function theory**
30C10 Polynomials
30C15 Zeros of polynomials, rational functions, and other analytic functions (e.g. zeros of functions with bounded Dirichlet integral) {For algebraic theory, see 12D10; for real methods, see 26C10}
30C20 Conformal mappings of special domains
30C25 Covering theorems in conformal mapping theory
30C30 Numerical methods in conformal mapping theory [See also 65E05]
30C35 General theory of conformal mappings
30C40 Kernel functions and applications
30C45 Special classes of univalent and multivalent functions (starlike, convex, bounded rotation, etc.)
30C50 Coefficient problems for univalent and multivalent functions
30C55 General theory of univalent and multivalent functions
30C62 Quasiconformal mappings in the plane
30C65 Quasiconformal mappings in $\mathbf{R}^n$, other generalizations
30C70 Extremal problems for conformal and quasiconformal mappings, variational methods
30C75 Extremal problems for conformal and quasiconformal mappings, other methods
30C80 Maximum principle; Schwarz's lemma, Lindelöf principle, analogues and generalizations; subordination
30C85 Capacity and harmonic measure in the complex plane [See also 31A15]
30C99 None of the above, but in this section
30Dxx **Entire and meromorphic functions, and related topics**
30D05 Functional equations in the complex domain, iteration and composition of analytic functions [See also 34Mxx, 37Fxx, 39–XX]
30D10 Representations of entire functions by series and integrals
30D15 Special classes of entire functions and growth estimates
30D20 Entire functions, general theory
30D30 Meromorphic functions, general theory
30D35 Distribution of values, Nevanlinna theory
30D40 Cluster sets, prime ends, boundary behavior
30D45 Bloch functions, normal functions, normal families
30D50 Blaschke products, bounded mean oscillation, bounded characteristic, bounded functions, functions with positive real part
30D55 H^p-classes
30D60 Quasi-analytic and other classes of functions
30D99 None of the above, but in this section
30Exx **Miscellaneous topics of analysis in the complex domain**
30E05 Moment problems, interpolation problems
30E10 Approximation in the complex domain
30E15 Asymptotic representations in the complex domain
30E20 Integration, integrals of Cauchy type, integral representations of analytic functions [See also 45Exx]
30E25 Boundary value problems [See also 45Exx]
30E99 None of the above, but in this section
30Fxx **Riemann surfaces**
30F10 Compact Riemann surfaces and uniformization [See also 14H15, 32G15]
30F15 Harmonic functions on Riemann surfaces
30F20 Classification theory of Riemann surfaces
30F25 Ideal boundary theory
30F30 Differentials on Riemann surfaces
30F35 Fuchsian groups and automorphic functions [See also 11Fxx, 20H10, 22E40, 32Gxx, 32Nxx]
30F40 Kleinian groups [See also 20H10]
30F45 Conformal metrics (hyperbolic, Poincaré, distance functions)
30F50 Klein surfaces
30F60 Teichmüller theory [See also 32G15]
30F99 None of the above, but in this section
30Gxx **Generalized function theory**
30G06 Non-Archimedean function theory [See also 12J25]; nonstandard function theory [See also 03H05]
30G12 Finely holomorphic functions and topological function theory
30G20 Generalizations of Bers or Vekua type (pseudoanalytic, p-analytic, etc.)
30G25 Discrete analytic functions
30G30 Other generalizations of analytic functions (including abstract-valued functions)
30G35 Functions of hypercomplex variables and generalized variables
30G99 None of the above, but in this section
30H05 **Spaces and algebras of analytic functions [See also 32A38, 46Exx, 46J15]**

31–XX **POTENTIAL THEORY {For probabilistic potential theory, see 60J45}**
31–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
31–01 Instructional exposition (textbooks, tutorial papers, etc.)
31–02 Research exposition (monographs, survey articles)
31–03 Historical (must also be assigned at least one classification number from Section 01)
31–04 Explicit machine computation and programs (not the theory of computation or programming)
31–06 Proceedings, conferences, collections, etc.
31Axx **Two-dimensional theory**
31A05 Harmonic, subharmonic, superharmonic functions
31A10 Integral representations, integral operators, integral equations methods
31A15 Potentials and capacity, harmonic measure, extremal length [See also 30C85]
31A20 Boundary behavior (theorems of Fatou type, etc.)
31A25 Boundary value and inverse problems
31A30 Biharmonic, polyharmonic functions and equations, Poisson's equation
31A35 Connections with differential equations
31A99 None of the above, but in this section
31Bxx **Higher-dimensional theory**
31B05 Harmonic, subharmonic, superharmonic functions
31B10 Integral representations, integral operators, integral equations methods
31B15 Potentials and capacities, extremal length
31B20 Boundary value and inverse problems
31B25 Boundary behavior
31B30 Biharmonic and polyharmonic equations and functions
31B35 Connections with differential equations
31B99 None of the above, but in this section
31Cxx **Other generalizations**
31C05 Harmonic, subharmonic, superharmonic functions
31C10 Pluriharmonic and plurisubharmonic functions [See also 32U05]
31C12 Potential theory on Riemannian manifolds [See also 53C20; for Hodge theory, see 58A14]
31C15 Potentials and capacities
31C20 Discrete potential theory and numerical methods
31C25 Dirichlet spaces
31C35 Martin boundary theory [See also 60J50]
31C40 Fine potential theory
31C45 Other generalizations (nonlinear potential theory, etc.)
31C99 None of the above, but in this section
31D05 **Axiomatic potential theory**

32–XX **SEVERAL COMPLEX VARIABLES AND ANALYTIC SPACES {For infinite-dimensional holomorphy, see 46G20, 58B12}**
32–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
32–01 Instructional exposition (textbooks, tutorial papers, etc.)
32–02 Research exposition (monographs, survey articles)
32–03 Historical (must also be assigned at least one classification number from Section 01)
32–04 Explicit machine computation and programs (not the theory of computation or programming)
32–06 Proceedings, conferences, collections, etc.
32Axx **Holomorphic functions of several complex variables**
32A05 Power series, series of functions
32A07 Special domains (Reinhardt, Hartogs, circular, tube)
32A10 Holomorphic functions
32A12 Multifunctions
32A15 Entire functions
32A17 Special families of functions
32A18 Bloch functions, normal functions
32A19 Normal families of functions, mappings
32A20 Meromorphic functions
32A22 Nevanlinna theory (local); growth estimates; other inequalities {For geometric theory, see 32H25, 32H30}
32A25 Integral representations; canonical kernels (Szegő, Bergman, etc.)
32A26 Integral representations, constructed kernels (e.g. Cauchy, Fantappiè-type kernels)
32A27 Local theory of residues [See also 32C30]
32A30 Other generalizations of function theory of one complex variable (should also be assigned at least one classification number from Section 30) {For functions of several hypercomplex variables, see 30G35}
32A35 H^p-spaces, Nevanlinna spaces [See also 32M15, 42B30, 43A85, 46J15]
32A36 Bergman spaces
32A37 Other spaces of holomorphic functions (e.g. bounded mean oscillation (BMOA), vanishing mean oscillation (VMOA)) [See also 46Exx]
32A38 Algebras of holomorphic functions [See also 30H05, 46J10, 46J15]
32A40 Boundary behavior of holomorphic functions

32A45 Hyperfunctions [See also 46F15]
32A50 Harmonic analysis of several complex variables [See mainly 43–XX]
32A55 Singular integrals
32A60 Zero sets of holomorphic functions
32A65 Banach algebra techniques [See mainly 46Jxx]
32A70 Functional analysis techniques [See mainly 46Exx]
32A99 None of the above, but in this section
32Bxx Local analytic geometry [See also 13–XX and 14–XX]
32B05 Analytic algebras and generalizations, preparation theorems
32B10 Germs of analytic sets, local parametrization
32B15 Analytic subsets of affine space
32B20 Semi-analytic sets and subanalytic sets [See also 14P15]
32B25 Triangulation and related questions
32B99 None of the above, but in this section
32Cxx Analytic spaces
32C05 Real-analytic manifolds, real-analytic spaces [See also 14Pxx, 58A07]
32C07 Real-analytic sets, complex Nash functions [See also 14P15, 14P20]
32C09 Embedding of real analytic manifolds
32C11 Complex supergeometry [See also 14A22, 14M30, 58A50]
32C15 Complex spaces
32C18 Topology of analytic spaces
32C20 Normal analytic spaces
32C22 Embedding of analytic spaces
32C25 Analytic subsets and submanifolds
32C30 Integration on analytic sets and spaces, currents {For local theory, see 32A25 or 32A27}
32C35 Analytic sheaves and cohomology groups [See also 14Fxx, 18F20, 55N30]
32C36 Local cohomology of analytic spaces
32C37 Duality theorems
32C38 Sheaves of differential operators and their modules, D-modules [See also 14F10, 16S32, 35A27, 58J15]
32C55 The Levi problem in complex spaces; generalizations
32C81 Applications to physics
32C99 None of the above, but in this section
32Dxx Analytic continuation
32D05 Domains of holomorphy
32D10 Envelopes of holomorphy
32D15 Continuation of analytic objects
32D20 Removable singularities
32D26 Riemann domains
32D99 None of the above, but in this section
32Exx Holomorphic convexity
32E05 Holomorphically convex complex spaces, reduction theory
32E10 Stein spaces, Stein manifolds
32E20 Polynomial convexity
32E30 Holomorphic and polynomial approximation, Runge pairs, interpolation
32E35 Global boundary behavior of holomorphic functions
32E40 The Levi problem
32E99 None of the above, but in this section
32Fxx Geometric convexity
32F10 q-convexity, q-concavity
32F17 Other notions of convexity
32F18 Finite-type conditions
32F27 Topological consequences of geometric convexity
32F32 Analytical consequences of geometric convexity (vanishing theorems, etc.)
32F45 Invariant metrics and pseudodistances
32F99 None of the above, but in this section
32Gxx Deformations of analytic structures
32G05 Deformations of complex structures [See also 13D10, 16S80, 58H10, 58H15]
32G07 Deformations of special (e.g. CR) structures
32G08 Deformations of fiber bundles
32G10 Deformations of submanifolds and subspaces
32G13 Analytic moduli problems {For algebraic moduli problems, see 14D20, 14D22, 14H10, 14J10} [See also 14H15, 14J15]
32G15 Moduli of Riemann surfaces, Teichmüller theory [See also 14H15, 30Fxx]
32G20 Period matrices, variation of Hodge structure; degenerations [See also 14D05, 14D07, 14K30]
32G34 Moduli and deformations for ordinary differential equations (e.g. Khnizhnik-Zamolodchikov equation) [See also 34Mxx]
32G81 Applications to physics
32G99 None of the above, but in this section
32Hxx Holomorphic mappings and correspondences
32H02 Holomorphic mappings, (holomorphic) embeddings and related questions
32H04 Meromorphic mappings
32H12 Boundary uniqueness of mappings
32H25 Picard-type theorems and generalizations {For function-theoretic properties, see 32A22}
32H30 Value distribution theory in higher dimensions {For function-theoretic properties, see 32A22}
32H35 Proper mappings, finiteness theorems
32H40 Boundary regularity of mappings
32H50 Iteration problems
32H99 None of the above, but in this section
32Jxx Compact analytic spaces {For Riemann surfaces, see 14Hxx, 30Fxx; for algebraic theory, see 14Jxx}
32J05 Compactification of analytic spaces
32J10 Algebraic dependence theorems
32J15 Compact surfaces
32J17 Compact 3-folds
32J18 Compact n-folds
32J25 Transcendental methods of algebraic geometry [See also 14C30]
32J27 Compact Kähler manifolds: generalizations, classification
32J81 Applications to physics
32J99 None of the above, but in this section
32Kxx Generalizations of analytic spaces (should also be assigned at least one other classification number from Section 32 describing the type of problem)
32K05 Banach analytic spaces [See also 58Bxx]
32K07 Formal and graded complex spaces [See also 58C50]
32K15 Differentiable functions on analytic spaces, differentiable spaces [See also 58C25]
32K99 None of the above, but in this section
32Lxx Holomorphic fiber spaces [See also 55Rxx]
32L05 Holomorphic bundles and generalizations
32L10 Sheaves and cohomology of sections of holomorphic vector bundles, general results [See also 14F05, 18F20, 55N30]
32L15 Bundle convexity [See also 32F10]
32L20 Vanishing theorems
32L25 Twistor theory, double fibrations [See also 53C28]
32L81 Applications to physics
32L99 None of the above, but in this section
32Mxx Complex spaces with a group of automorphisms
32M05 Complex Lie groups, automorphism groups acting on complex spaces [See also 22E10]
32M10 Homogeneous complex manifolds [See also 14M17, 57T15]
32M12 Almost homogeneous manifolds and spaces [See also 14M17]
32M15 Hermitian symmetric spaces, bounded symmetric domains, Jordan algebras [See also 22E10, 22E40, 53C35, 57T15]
32M17 Automorphism groups of $\mathbf{C}^n$ and affine manifolds
32M25 Complex vector fields
32M99 None of the above, but in this section
32Nxx Automorphic functions [See also 11Fxx, 20H10, 22E40, 30F35]
32N05 General theory of automorphic functions of several complex variables
32N10 Automorphic forms
32N15 Automorphic functions in symmetric domains
32N99 None of the above, but in this section
32P05 Non-Archimedean complex analysis (should also be assigned at least one other classification number from Section 32 describing the type of problem)
32Qxx Complex manifolds
32Q05 Negative curvature manifolds
32Q10 Positive curvature manifolds
32Q15 Kähler manifolds
32Q20 Kähler-Einstein manifolds [See also 53Cxx]
32Q25 Calabi-Yau theory
32Q28 Stein manifolds
32Q30 Uniformization
32Q35 Complex manifolds as subdomains of Euclidean space
32Q40 Embedding theorems
32Q45 Hyperbolic and Kobayashi hyperbolic manifolds
32Q55 Topological aspects of complex manifolds
32Q57 Classification theorems
32Q60 Almost complex manifolds
32Q65 Pseudoholomorphic curves
32Q99 None of the above, but in this section
32Sxx Singularities [See also 58Kxx]
32S05 Local singularities [See also 14J17]
32S10 Invariants of analytic local rings
32S15 Equisingularity (topological and analytic) [See also 14E15]
32S20 Global theory of singularities; cohomological properties [See also 14E15]
32S22 Relations with arrangements of hyperplanes [See also 52C35]
32S25 Surface and hypersurface singularities [See also 14J17]
32S30 Deformations of singularities; vanishing cycles [See also 14B07]
32S35 Mixed Hodge theory of singular varieties [See also 14C30, 14D07]
32S40 Monodromy; relations with differential equations and D-modules
32S45 Modifications; resolution of singularities [See also 14E15]

32S50 Topological aspects: Lefschetz theorems, topological classification, invariants
32S55 Milnor fibration; relations with knot theory [See also 57M25, 57Q45]
32S60 Stratifications; constructible sheaves; intersection cohomology [See also 58Kxx]
32S65 Singularities of holomorphic vector fields and foliations
32S70 Other operations on singularities
32S99 None of the above, but in this section
32Txx Pseudoconvex domains
32T05 Domains of holomorphy
32T15 Strongly pseudoconvex domains
32T20 Worm domains
32T25 Finite type domains
32T27 Geometric and analytic invariants on weakly pseudoconvex boundaries
32T35 Exhaustion functions
32T40 Peak functions
32T99 None of the above, but in this section
32Uxx Pluripotential theory
32U05 Plurisubharmonic functions and generalizations [See also 31C10]
32U10 Plurisubharmonic exhaustion functions
32U15 General pluripotential theory
32U20 Capacity theory and generalizations
32U25 Lelong numbers
32U30 Removable sets
32U35 Pluricomplex Green functions
32U40 Currents
32U99 None of the above, but in this section
32Vxx CR Manifolds
32V05 CR structures, CR operators, and generalizations
32V10 CR functions
32V15 CR manifolds as boundaries of domains
32V20 Analysis on CR manifolds
32V25 Extension of functions and other analytic objects from CR manifolds
32V30 Embeddings of CR manifolds
32V35 Finite type conditions on CR manifolds
32V40 Real submanifolds in complex manifolds
32V99 None of the above, but in this section
32Wxx Differential operators in several variables
32W05 $\overline{\partial}$ and $\overline{\partial}$-Neumann operators
32W10 $\overline{\partial}_b$ and $\overline{\partial}_b$-Neumann operators
32W20 Complex Monge-Ampère operators
32W25 Pseudodifferential operators in several complex variables
32W30 Heat kernels in several complex variables
32W50 Other partial differential equations of complex analysis
32W99 None of the above, but in this section

33–XX SPECIAL FUNCTIONS (33–XX DEALS WITH THE PROPERTIES OF FUNCTIONS AS FUNCTIONS) {For orthogonal functions, see 42Cxx; for aspects of combinatorics see 05Axx; for number-theoretic aspects see 11–XX; for representation theory see 22Exx}
33–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
33–01 Instructional exposition (textbooks, tutorial papers, etc.)
33–02 Research exposition (monographs, survey articles)
33–03 Historical (must also be assigned at least one classification number from Section 01)
33–04 Explicit machine computation and programs (not the theory of computation or programming)
33–06 Proceedings, conferences, collections, etc.
33Bxx Elementary classical functions
33B10 Exponential and trigonometric functions
33B15 Gamma, beta and polygamma functions
33B20 Incomplete beta and gamma functions (error functions, probability integral, Fresnel integrals)
33B30 Higher logarithm functions
33B99 None of the above, but in this section
33Cxx Hypergeometric functions
33C05 Classical hypergeometric functions, ${}_2F_1$
33C10 Bessel and Airy functions, cylinder functions, ${}_0F_1$
33C15 Confluent hypergeometric functions, Whittaker functions, ${}_1F_1$
33C20 Generalized hypergeometric series, ${}_pF_q$
33C45 Orthogonal polynomials and functions of hypergeometric type (Jacobi, Laguerre, Hermite, Askey scheme, etc.) [See also 42C05 for general orthogonal polynomials and functions]
33C47 Other special orthogonal polynomials and functions
33C50 Orthogonal polynomials and functions in several variables expressible in terms of special functions in one variable
33C52 Orthogonal polynomials and functions associated with root systems
33C55 Spherical harmonics
33C60 Hypergeometric integrals and functions defined by them (E, G and H functions)
33C65 Appell, Horn and Lauricella functions
33C67 Hypergeometric functions associated with root systems
33C70 Other hypergeometric functions and integrals in several variables
33C75 Elliptic integrals as hypergeometric functions
33C80 Connections with groups and algebras, and related topics
33C90 Applications
33C99 None of the above, but in this section
33Dxx Basic hypergeometric functions
33D05 q-gamma functions, q-beta functions and integrals
33D15 Basic hypergeometric functions in one variable, ${}_r\varphi_s$
33D45 Basic orthogonal polynomials and functions (Askey-Wilson polynomials, etc.)
33D50 Orthogonal polynomials and functions in several variables expressible in terms of basic hypergeometric functions in one variable
33D52 Basic orthogonal polynomials and functions associated with root systems (Macdonald polynomials, etc.)
33D60 Basic hypergeometric integrals and functions defined by them
33D65 Bibasic functions and multiple bases
33D67 Basic hypergeometric functions associated with root systems
33D70 Other basic hypergeometric functions and integrals in several variables
33D80 Connections with quantum groups, Chevalley groups, p-adic groups, Hecke algebras, and related topics
33D90 Applications
33D99 None of the above, but in this section
33Exx Other special functions
33E05 Elliptic functions and integrals
33E10 Lamé, Mathieu, and spheroidal wave functions
33E12 Mittag-Leffler functions and generalizations
33E15 Other wave functions
33E17 Painlevé-type functions
33E20 Other functions defined by series and integrals
33E30 Other functions coming from differential, difference and integral equations
33E50 Special functions in characteristic p (gamma functions, etc.)
33E99 None of the above, but in this section
33Fxx Computational aspects
33F05 Numerical approximation [See also 65D20]
33F10 Symbolic computation (Gosper and Zeilberger algorithms, etc.) [See also 68W30]
33F99 None of the above, but in this section

34–XX ORDINARY DIFFERENTIAL EQUATIONS
34–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
34–01 Instructional exposition (textbooks, tutorial papers, etc.)
34–02 Research exposition (monographs, survey articles)
34–03 Historical (must also be assigned at least one classification number from Section 01)
34–04 Explicit machine computation and programs (not the theory of computation or programming)
34–06 Proceedings, conferences, collections, etc.
34Axx General theory
34A05 Explicit solutions and reductions
34A09 Implicit equations, differential-algebraic equations [See also 65L80]
34A12 Initial value problems, existence, uniqueness, continuous dependence and continuation of solutions
34A25 Analytical theory: series, transformations, transforms, operational calculus, etc. [See also 44–XX]
34A26 Geometric methods in differential equations
34A30 Linear equations and systems, general
34A34 Nonlinear equations and systems, general
34A35 Differential equations of infinite order
34A36 Discontinuous equations
34A37 Differential equations with impulses
34A40 Differential inequalities [See also 26D20]
34A45 Theoretical approximation of solutions {For numerical analysis, see 65Lxx}
34A55 Inverse problems
34A60 Differential inclusions [See also 49J24, 49K24]
34A99 None of the above, but in this section
34Bxx Boundary value problems {For ordinary differential operators, see 34Lxx}
34B05 Linear boundary value problems
34B07 Linear boundary value problems with nonlinear dependence on the spectral parameter
34B08 Multi-parameter boundary value problems
34B09 Boundary value problems with an indefinite weight
34B10 Multipoint boundary value problems
34B15 Nonlinear boundary value problems
34B16 Singular nonlinear boundary value problems
34B18 Positive solutions of nonlinear boundary value problems
34B20 Weyl theory and its generalizations
34B24 Sturm-Liouville theory [See also 34Lxx]

34B27 Green functions
34B30 Special equations (Mathieu, Hill, Bessel, etc.)
34B37 Boundary value problems with impulses
34B40 Boundary value problems on infinite intervals
34B45 Boundary value problems on graphs and networks
34B60 Applications
34B99 None of the above, but in this section
34Cxx Qualitative theory [See also 37–XX]
34C05 Location of integral curves, singular points, limit cycles
34C07 Theory of limit cycles of polynomial and analytic vector fields (existence, uniqueness, bounds, Hilbert's 16th problem and ramifications)
34C08 Connections with real algebraic geometry (fewnomials, desingularization, zeros of Abelian integrals, etc.)
34C10 Oscillation theory, zeros, disconjugacy and comparison theory
34C11 Growth, boundedness, comparison of solutions
34C12 Monotone systems
34C14 Symmetries, invariants
34C15 Nonlinear oscillations, coupled oscillators
34C20 Transformation and reduction of equations and systems, normal forms
34C23 Bifurcation [See mainly 37Gxx]
34C25 Periodic solutions
34C26 Relaxation oscillations
34C27 Almost periodic solutions
34C28 Complex behavior, chaotic systems [See mainly 37Dxx]
34C29 Averaging method
34C30 Manifolds of solutions
34C37 Homoclinic and heteroclinic solutions
34C40 Equations and systems on manifolds
34C41 Equivalence, asymptotic equivalence
34C45 Method of integral manifolds
34C55 Hysteresis
34C60 Applications
34C99 None of the above, but in this section
34Dxx Stability theory [See also 37C75, 93Dxx]
34D05 Asymptotic properties
34D08 Characteristic and Lyapunov exponents
34D09 Dichotomy, trichotomy
34D10 Perturbations
34D15 Singular perturbations
34D20 Lyapunov stability
34D23 Global stability
34D30 Structural stability and analogous concepts [See also 37C20]
34D35 Stability of manifolds of solutions
34D40 Ultimate boundedness
34D45 Attractors [See also 37C70, 37D45]
34D99 None of the above, but in this section
34Exx Asymptotic theory
34E05 Asymptotic expansions
34E10 Perturbations, asymptotics
34E13 Multiple scale methods
34E15 Singular perturbations, general theory
34E18 Methods of nonstandard analysis
34E20 Singular perturbations, turning point theory, WKB methods
34E99 None of the above, but in this section
34F05 Equations and systems with randomness [See also 34K50, 60H10, 93E03]
34Gxx Differential equations in abstract spaces [See also 34Lxx, 37Kxx, 47Dxx, 47Hxx, 47Jxx, 58D25]
34G10 Linear equations [See also 47D06, 47D09]
34G20 Nonlinear equations [See also 47Hxx, 47Jxx]
34G25 Evolution inclusions
34G99 None of the above, but in this section
34H05 Control problems [See also 49J25, 49K25, 93C15]
34Kxx Functional-differential and differential-difference equations, with or without deviating arguments [See also 37–XX]
34K05 General theory
34K06 Linear functional-differential equations
34K07 Theoretical approximation of solutions
34K10 Boundary value problems
34K11 Oscillation theory
34K12 Growth, boundedness, comparison of solutions
34K13 Periodic solutions
34K14 Almost periodic solutions
34K17 Transformation and reduction of equations and systems, normal forms
34K18 Bifurcation theory
34K19 Invariant manifolds
34K20 Stability theory
34K23 Complex (chaotic) behavior of solutions
34K25 Asymptotic theory
34K26 Singular perturbations
34K28 Numerical approximation of solutions
34K29 Inverse problems
34K30 Equations in abstract spaces [See also 34Gxx, 47Dxx, 47Jxx]
34K35 Control problems [See also 49J25, 49K25, 93C15]
34K40 Neutral equations
34K45 Equations with impulses
34K50 Stochastic delay equations [See also 34F05, 60Hxx]
34K60 Applications
34K99 None of the above, but in this section
34Lxx Ordinary differential operators [See also 47E05]
34L05 General spectral theory
34L10 Eigenfunction expansions, completeness of eigenfunctions
34L15 Estimation of eigenvalues, upper and lower bounds
34L16 Numerical approximation of eigenvalues and of other parts of the spectrum
34L20 Asymptotic distribution of eigenvalues, asymptotic theory of eigenfunctions
34L25 Scattering theory
34L30 Nonlinear ordinary differential operators
34L40 Particular operators (Dirac, one-dimensional Schrödinger, etc.)
34L99 None of the above, but in this section
34Mxx Differential equations in the complex domain [See also 30Dxx, 32G34]
34M05 Entire and meromorphic solutions
34M10 Oscillation, growth of solutions
34M15 Algebraic aspects (differential-algebraic, hypertranscendence, group-theoretical)
34M20 Nonanalytic aspects
34M25 Formal solutions, transform techniques
34M30 Asymptotics, summation methods
34M35 Singularities, monodromy, local behavior of solutions, normal forms
34M37 Resurgence phenomena
34M40 Stokes phenomena and connection problems (linear and nonlinear)
34M45 Differential equations on complex manifolds
34M50 Inverse problems (Riemann-Hilbert, inverse differential Galois, etc.)
34M55 Painlevé and other special equations; classification, hierarchies; isomonodromic deformations
34M60 Singular perturbation problems in the complex domain (complex WKB, turning points, steepest descent) [See also 34E20]
34M99 None of the above, but in this section

35–XX PARTIAL DIFFERENTIAL EQUATIONS

35–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
35–01 Instructional exposition (textbooks, tutorial papers, etc.)
35–02 Research exposition (monographs, survey articles)
35–03 Historical (must also be assigned at least one classification number from Section 01)
35–04 Explicit machine computation and programs (not the theory of computation or programming)
35–06 Proceedings, conferences, collections, etc.
35Axx General theory
35A05 General existence and uniqueness theorems
35A07 Local existence and uniqueness theorems [See also 35Hxx, 35Sxx]
35A08 Fundamental solutions
35A10 Cauchy-Kovalevskaya theorems
35A15 Variational methods
35A17 Parametrices
35A18 Wave front sets
35A20 Analytic methods, singularities
35A21 Propagation of singularities
35A22 Transform methods (e.g. integral transforms)
35A25 Other special methods
35A27 Microlocal methods; methods of sheaf theory and homological algebra in PDE [See also 32C38, 58J15]
35A30 Geometric theory, characteristics, transformations [See also 58J70, 58J72]
35A35 Theoretical approximation to solutions {For numerical analysis, see 65Mxx, 65Nxx}
35A99 None of the above, but in this section
35Bxx Qualitative properties of solutions
35B05 General behavior of solutions of PDE (comparison theorems; oscillation, zeros and growth of solutions; mean value theorems)
35B10 Periodic solutions
35B15 Almost periodic solutions
35B20 Perturbations
35B25 Singular perturbations
35B27 Homogenization; partial differential equations in media with periodic structure [See also 74Qxx, 76M50]
35B30 Dependence of solutions of PDE on initial and boundary data, parameters [See also 37Cxx]
35B32 Bifurcation [See also 37Gxx, 37K50]
35B33 Critical exponents
35B34 Resonances
35B35 Stability, boundedness

35B37 PDE in connection with control problems [See also 49J20, 49K20, 93C20]
35B38 Critical points
35B40 Asymptotic behavior of solutions
35B41 Attractors
35B42 Inertial manifolds
35B45 A priori estimates
35B50 Maximum principles
35B60 Continuation and prolongation of solutions of PDE [See also 58A15, 58A17, 58Hxx]
35B65 Smoothness and regularity of solutions of PDE
35B99 None of the above, but in this section
35Cxx Representations of solutions
35C05 Solutions in closed form
35C10 Series solutions, expansion theorems
35C15 Integral representations of solutions of PDE
35C20 Asymptotic expansions
35C99 None of the above, but in this section
35Dxx Generalized solutions of partial differential equations
35D05 Existence of generalized solutions
35D10 Regularity of generalized solutions
35D99 None of the above, but in this section
35Exx Equations and systems with constant coefficients [See also 35N05]
35E05 Fundamental solutions
35E10 Convexity properties
35E15 Initial value problems
35E20 General theory
35E99 None of the above, but in this section
35Fxx General first-order equations and systems
35F05 General theory of linear first-order PDE
35F10 Initial value problems for linear first-order PDE, linear evolution equations
35F15 Boundary value problems for linear first-order PDE
35F20 General theory of nonlinear first-order PDE
35F25 Initial value problems for nonlinear first-order PDE, nonlinear evolution equations
35F30 Boundary value problems for nonlinear first-order PDE
35F99 None of the above, but in this section
35Gxx General higher-order equations and systems
35G05 General theory of linear higher-order PDE
35G10 Initial value problems for linear higher-order PDE, linear evolution equations
35G15 Boundary value problems for linear higher-order PDE
35G20 General theory of nonlinear higher-order PDE
35G25 Initial value problems for nonlinear higher-order PDE, nonlinear evolution equations
35G30 Boundary value problems for nonlinear higher-order PDE
35G99 None of the above, but in this section
35Hxx Close-to-elliptic equations
35H10 Hypoelliptic equations
35H20 Subelliptic equations
35H30 Quasi-elliptic equations
35H99 None of the above, but in this section
35Jxx Partial differential equations of elliptic type [See also 58J10, 58J20]
35J05 Laplace equation, reduced wave equation (Helmholtz), Poisson equation [See also 31Axx, 31Bxx]
35J10 Schrödinger operator [See also 35Pxx]
35J15 General theory of second-order, elliptic equations
35J20 Variational methods for second-order, elliptic equations
35J25 Boundary value problems for second-order, elliptic equations
35J30 General theory of higher-order, elliptic equations [See also 31A30, 31B30]
35J35 Variational methods for higher-order, elliptic equations
35J40 Boundary value problems for higher-order, elliptic equations
35J45 General theory of elliptic systems of PDE
35J50 Variational methods for elliptic systems
35J55 Boundary value problems for elliptic systems
35J60 Nonlinear PDE of elliptic type
35J65 Nonlinear boundary value problems for linear elliptic PDE; boundary value problems for nonlinear elliptic PDE
35J67 Boundary values of solutions to elliptic PDE
35J70 Elliptic partial differential equations of degenerate type
35J85 Unilateral problems and variational inequalities for elliptic PDE [See also 35R35, 49J40]
35J99 None of the above, but in this section
35Kxx Parabolic equations and systems [See also 35Bxx, 35Dxx, 35R30, 35R35, 58J35]
35K05 Heat equation
35K10 General theory of second-order, parabolic equations
35K15 Initial value problems for second-order, parabolic equations
35K20 Boundary value problems for second-order, parabolic equations
35K25 General theory of higher-order, parabolic equations
35K30 Initial value problems for higher-order, parabolic equations
35K35 Boundary value problems for higher-order, parabolic equations
35K40 General theory of parabolic systems of PDE
35K45 Initial value problems for parabolic systems
35K50 Boundary value problems for parabolic systems
35K55 Nonlinear PDE of parabolic type
35K57 Reaction-diffusion equations
35K60 Nonlinear boundary value problems for linear parabolic PDE; boundary value problems for nonlinear parabolic PDE
35K65 Parabolic partial differential equations of degenerate type
35K70 Ultraparabolic, pseudoparabolic PDE, etc.
35K85 Unilateral problems and variational inequalities for parabolic PDE [See also 35R35, 49J40]
35K90 Abstract parabolic evolution equations
35K99 None of the above, but in this section
35Lxx Partial differential equations of hyperbolic type [See also 58J45]
35L05 Wave equation
35L10 General theory of second-order, hyperbolic equations
35L15 Initial value problems for second-order, hyperbolic equations
35L20 Boundary value problems for second-order, hyperbolic equations
35L25 General theory of higher-order, hyperbolic equations
35L30 Initial value problems for higher-order, hyperbolic equations
35L35 Boundary value problems for higher-order, hyperbolic equations
35L40 General theory of hyperbolic systems of first-order PDE
35L45 Initial value problems for hyperbolic systems of first-order PDE
35L50 Boundary value problems for hyperbolic systems of first-order PDE
35L55 Hyperbolic systems of higher-order PDE
35L60 Nonlinear first-order PDE of hyperbolic type
35L65 Conservation laws
35L67 Shocks and singularities [See also 58Kxx, 76L05]
35L70 Nonlinear second-order PDE of hyperbolic type
35L75 Nonlinear hyperbolic PDE of higher (> 2) order
35L80 Hyperbolic PDE of degenerate type
35L82 Pseudohyperbolic equations
35L85 Unilateral problems; variational inequalities for hyperbolic PDE [See also 35R35, 49J40]
35L90 Abstract hyperbolic evolution equations
35L99 None of the above, but in this section
35Mxx Partial differential equations of special type (mixed, composite, etc.) {For degenerate types, see 35J70, 35K65, 35L80}
35M10 PDE of mixed type
35M20 PDE of composite type
35M99 None of the above, but in this section
35Nxx Overdetermined systems [See also 58Hxx, 58J10, 58J15]
35N05 Overdetermined systems with constant coefficients
35N10 Overdetermined systems with variable coefficients (general)
35N15 $\overline{\partial}$-Neumann problem and generalizations; formal complexes [See also 32W05, 32W10, 58J10]
35N99 None of the above, but in this section
35Pxx Spectral theory and eigenvalue problems for partial differential operators [See also 47Axx, 47Bxx, 47F05]
35P05 General spectral theory of PDE
35P10 Completeness of eigenfunctions, eigenfunction expansions for PDO
35P15 Estimation of eigenvalues, upper and lower bounds
35P20 Asymptotic distribution of eigenvalues and eigenfunctions for PDO
35P25 Scattering theory for PDE [See also 47A40]
35P30 Nonlinear eigenvalue problems, nonlinear spectral theory for PDO
35P99 None of the above, but in this section
35Qxx Equations of mathematical physics and other areas of application [See also 35J05, 35J10, 35K05, 35L05]
35Q05 Euler-Poisson-Darboux equation and generalizations
35Q15 Riemann-Hilbert problems [See also 30E25, 31A25, 31B20]
35Q30 Stokes and Navier-Stokes equations [See also 76D05, 76D07, 76N10]
35Q35 Other equations arising in fluid mechanics
35Q40 Equations from quantum mechanics
35Q51 Solitons [See also 37K40]
35Q53 KdV-like equations (Korteweg-de Vries, Burgers, sine-Gordon, sinh-Gordon, etc.) [See also 37K10]
35Q55 NLS-like (nonlinear Schrödinger) equations [See also 37K10]
35Q58 Other completely integrable equations [See also 37J35, 37K10]
35Q60 Equations of electromagnetic theory and optics
35Q72 Other equations from mechanics
35Q75 PDE in relativity
35Q80 Applications of PDE in areas other than physics
35Q99 None of the above, but in this section
35Rxx Miscellaneous topics involving partial differential equations {For equations on manifolds, see 58Jxx; for manifolds of solutions, see 58Bxx; for stochastic PDEs, see also 60H15}
35R05 PDE with discontinuous coefficients or data
35R10 Partial functional-differential or differential-difference equations, with or without deviating arguments
35R12 Impulsive partial differential equations

35R15 Partial differential equations on infinite-dimensional (e.g. function) spaces (= PDE in infinitely many variables) [See also 46Gxx, 58D25]
35R20 Partial operator-differential equations (i.e. PDE on finite-dimensional spaces for abstract space valued functions) [See also 34Gxx, 47A50, 47D03, 47D06, 47D09, 47H20, 47Jxx]
35R25 Improperly posed problems for PDE
35R30 Inverse problems (undetermined coefficients, etc.) for PDE
35R35 Free boundary problems for PDE
35R45 Partial differential inequalities
35R50 Partial differential equations of infinite order
35R60 Partial differential equations with randomness [See also 60H15]
35R70 PDE with multivalued right-hand sides
35R99 None of the above, but in this section
35Sxx Pseudodifferential operators and other generalizations of partial differential operators [See also 47G30, 58J40]
35S05 General theory of PsDO
35S10 Initial value problems for PsDO
35S15 Boundary value problems for PsDO
35S30 Fourier integral operators
35S35 Topological aspects: intersection cohomology, stratified sets, etc. [See also 32C38, 32S40, 32S60, 58J15]
35S50 Paradifferential operators
35S99 None of the above, but in this section

37–XX DYNAMICAL SYSTEMS AND ERGODIC THEORY [See also 26A18, 28Dxx, 34Cxx, 34Dxx, 35Bxx, 46Lxx, 58Jxx, 70–XX]
37–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
37–01 Instructional exposition (textbooks, tutorial papers, etc.)
37–02 Research exposition (monographs, survey articles)
37–03 Historical (must also be assigned at least one classification number from Section 01)
37–04 Explicit machine computation and programs (not the theory of computation or programming)
37–06 Proceedings, conferences, collections, etc.
37Axx Ergodic theory [See also 28Dxx]
37A05 Measure-preserving transformations
37A10 One-parameter continuous families of measure-preserving transformations
37A15 General groups of measure-preserving transformations [See mainly 22Fxx]
37A17 Homogeneous flows [See also 22Fxx]
37A20 Orbit equivalence, cocycles, ergodic equivalence relations
37A25 Ergodicity, mixing, rates of mixing
37A30 Ergodic theorems, spectral theory, Markov operators {For operator ergodic theory, see mainly 47A35}
37A35 Entropy and other invariants, isomorphism, classification
37A40 Nonsingular (and infinite-measure preserving) transformations
37A45 Relations with number theory and harmonic analysis [See also 11Kxx]
37A50 Relations with probability theory and stochastic processes [See also 60Fxx and 60G10]
37A55 Relations with the theory of C^*-algebras [See mainly 46L55]
37A60 Dynamical systems in statistical mechanics [See also 82Cxx]
37A99 None of the above, but in this section
37Bxx Topological dynamics [See also 54H20]
37B05 Transformations and group actions with special properties (minimality, distality, proximality, etc.)
37B10 Symbolic dynamics [See also 37Cxx, 37Dxx]
37B15 Cellular automata
37B20 Notions of recurrence
37B25 Lyapunov functions and stability; attractors, repellers
37B30 Index theory, Morse-Conley indices
37B35 Gradient-like and recurrent behavior; isolated (locally-maximal) invariant sets
37B40 Topological entropy
37B45 Continua theory in dynamics
37B50 Multi-dimensional shifts of finite type, tiling dynamics
37B55 Nonautonomous dynamical systems
37B99 None of the above, but in this section
37Cxx Smooth dynamical systems: general theory [See also 34Cxx, 34Dxx]
37C05 Smooth mappings and diffeomorphisms
37C10 Vector fields, flows, ordinary differential equations
37C15 Topological and differentiable equivalence, conjugacy, invariants, moduli, classification
37C20 Generic properties, structural stability
37C25 Fixed points, periodic points, fixed-point index theory
37C27 Periodic orbits of vector fields and flows
37C29 Homoclinic and heteroclinic orbits
37C30 Zeta functions, (Ruelle-Frobenius) transfer operators, and other functional analytic techniques in dynamical systems
37C35 Orbit growth
37C40 Smooth ergodic theory, invariant measures [See also 37Dxx]
37C45 Dimension theory of dynamical systems
37C50 Approximate trajectories (pseudotrajectories, shadowing, etc.)
37C55 Periodic and quasiperiodic flows and diffeomorphisms
37C60 Nonautonomous smooth dynamical systems [See also 37B55]
37C65 Monotone flows
37C70 Attractors and repellers, topological structure
37C75 Stability theory
37C80 Symmetries, equivariant dynamical systems
37C85 Dynamics of group actions other than **Z** and **R**, and foliations [See mainly 22Fxx, and also 57R30, 57Sxx]
37C99 None of the above, but in this section
37Dxx Dynamical systems with hyperbolic behavior
37D05 Hyperbolic orbits and sets
37D10 Invariant manifold theory
37D15 Morse-Smale systems
37D20 Uniformly hyperbolic systems (expanding, Anosov, Axiom A, etc.)
37D25 Nonuniformly hyperbolic systems (Lyapunov exponents, Pesin theory, etc.)
37D30 Partially hyperbolic systems and dominated splittings
37D35 Thermodynamic formalism, variational principles, equilibrium states
37D40 Dynamical systems of geometric origin and hyperbolicity (geodesic and horocycle flows, etc.)
37D45 Strange attractors, chaotic dynamics
37D50 Hyperbolic systems with singularities (billiards, etc.)
37D99 None of the above, but in this section
37Exx Low-dimensional dynamical systems
37E05 Maps of the interval (piecewise continuous, continuous, smooth)
37E10 Maps of the circle
37E15 Combinatorial dynamics (types of periodic orbits)
37E20 Universality, renormalization [See also 37F25]
37E25 Maps of trees and graphs
37E30 Homeomorphisms and diffeomorphisms of planes and surfaces
37E35 Flows on surfaces
37E40 Twist maps
37E45 Rotation numbers and vectors
37E99 None of the above, but in this section
37Fxx Complex dynamical systems [See also 30D05, 32H50]
37F05 Relations and correspondences
37F10 Polynomials; rational maps; entire and meromorphic functions [See also 32A10, 32A20, 32H02, 32H04]
37F15 Expanding maps; hyperbolicity; structural stability
37F20 Combinatorics and topology
37F25 Renormalization
37F30 Quasiconformal methods and Teichmüller theory; Fuchsian and Kleinian groups as dynamical systems
37F35 Conformal densities and Hausdorff dimension
37F40 Geometric limits
37F45 Holomorphic families of dynamical systems; the Mandelbrot set; bifurcations
37F50 Small divisors, rotation domains and linearization; Fatou and Julia sets
37F75 Holomorphic foliations and vector fields [See also 32M25, 32S65, 34Mxx]
37F99 None of the above, but in this section
37Gxx Local and nonlocal bifurcation theory [See also 34C23, 34K18]
37G05 Normal forms
37G10 Bifurcations of singular points
37G15 Bifurcations of limit cycles and periodic orbits
37G20 Hyperbolic singular points with homoclinic trajectories
37G25 Bifurcations connected with nontransversal intersection
37G30 Infinite nonwandering sets arising in bifurcations
37G35 Attractors and their bifurcations
37G40 Symmetries, equivariant bifurcation theory
37G99 None of the above, but in this section
37Hxx Random dynamical systems [See also 15A52, 34D08, 34F05, 47B80, 70L05, 82C05, 93Exx]
37H05 Foundations, general theory of cocycles, algebraic ergodic theory [See also 37Axx]
37H10 Generation, random and stochastic difference and differential equations [See also 34F05, 34K50, 60H10, 60H15]
37H15 Multiplicative ergodic theory, Lyapunov exponents [See also 34D08, 37Axx, 37Cxx, 37Dxx]
37H20 Bifurcation theory [See also 37Gxx]
37H99 None of the above, but in this section
37Jxx Finite-dimensional Hamiltonian, Lagrangian, contact, and nonholonomic systems [See also 53Dxx, 70Fxx, 70Hxx]
37J05 General theory, relations with symplectic geometry and topology
37J10 Symplectic mappings, fixed points
37J15 Symmetries, invariants, invariant manifolds, momentum maps, reduction [See also 53D20]
37J20 Bifurcation problems
37J25 Stability problems

37J30 Obstructions to integrability (nonintegrability criteria)
37J35 Completely integrable systems, topological structure of phase space, integration methods
37J40 Perturbations, normal forms, small divisors, KAM theory, Arnol'd diffusion
37J45 Periodic, homoclinic and heteroclinic orbits; variational methods, degree-theoretic methods
37J50 Action-minimizing orbits and measures
37J55 Contact systems [See also 53D10]
37J60 Nonholonomic dynamical systems [See also 70F25]
37J99 None of the above, but in this section

37Kxx Infinite-dimensional Hamiltonian systems [See also 35Axx, 35Qxx]
37K05 Hamiltonian structures, symmetries, variational principles, conservation laws
37K10 Completely integrable systems, integrability tests, bi-Hamiltonian structures, hierarchies (KdV, KP, Toda, etc.)
37K15 Integration of completely integrable systems by inverse spectral and scattering methods
37K20 Relations with algebraic geometry, complex analysis, special functions [See also 14H70]
37K25 Relations with differential geometry
37K30 Relations with infinite-dimensional Lie algebras and other algebraic structures
37K35 Lie-Bäcklund and other transformations
37K40 Soliton theory, asymptotic behavior of solutions
37K45 Stability problems
37K50 Bifurcation problems
37K55 Perturbations, KAM for infinite-dimensional systems
37K60 Lattice dynamics [See also 37L60]
37K65 Hamiltonian systems on groups of diffeomorphisms and on manifolds of mappings and metrics
37K99 None of the above, but in this section

37Lxx Infinite-dimensional dissipative dynamical systems [See also 35Bxx, 35Qxx]
37L05 General theory, nonlinear semigroups, evolution equations
37L10 Normal forms, center manifold theory, bifurcation theory
37L15 Stability problems
37L20 Symmetries
37L25 Inertial manifolds and other invariant attracting sets
37L30 Attractors and their dimensions, Lyapunov exponents
37L40 Invariant measures
37L45 Hyperbolicity; Lyapunov functions
37L50 Noncompact semigroups; dispersive equations; perturbations of Hamiltonian systems
37L55 Infinite-dimensional random dynamical systems; stochastic equations [See also 35R60, 60H10, 60H15]
37L60 Lattice dynamics [See also 37K60]
37L65 Special approximation methods (nonlinear Galerkin, etc.)
37L99 None of the above, but in this section

37Mxx Approximation methods and numerical treatment of dynamical systems [See also 65Pxx]
37M05 Simulation
37M10 Time series analysis
37M15 Symplectic integrators
37M20 Computational methods for bifurcation problems
37M25 Computational methods for ergodic theory (approximation of invariant measures, computation of Lyapunov exponents, entropy)
37M99 None of the above, but in this section

37Nxx Applications
37N05 Dynamical systems in classical and celestial mechanics [See mainly 70Fxx, 70Hxx, 70Kxx]
37N10 Dynamical systems in fluid mechanics, oceanography and meteorology [See mainly 76–XX, especially 76D05, 76F20, 86A05, 86A10]
37N15 Dynamical systems in solid mechanics [See mainly 74Hxx]
37N20 Dynamical systems in other branches of physics (quantum mechanics, general relativity, laser physics)
37N25 Dynamical systems in biology [See mainly 92–XX, but also 91–XX]
37N30 Dynamical systems in numerical analysis
37N35 Dynamical systems in control
37N40 Dynamical systems in optimization and economics
37N99 None of the above, but in this section

39–XX DIFFERENCE AND FUNCTIONAL EQUATIONS

39–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
39–01 Instructional exposition (textbooks, tutorial papers, etc.)
39–02 Research exposition (monographs, survey articles)
39–03 Historical (must also be assigned at least one classification number from Section 01)
39–04 Explicit machine computation and programs (not the theory of computation or programming)
39–06 Proceedings, conferences, collections, etc.

39Axxx Difference equations {For dynamical systems, see 37–XX}
39A05 General
39A10 Difference equations, additive
39A11 Stability and asymptotics of difference equations; oscillatory and periodic solutions, etc.
39A12 Discrete version of topics in analysis
39A13 Difference equations, scaling (q-differences) [See also 33Dxx]
39A20 Multiplicative and other generalized difference equations, e.g. of Lyness type
39A70 Difference operators [See also 47B39]
39A99 None of the above, but in this section

39Bxx Functional equations and inequalities [See also 30D05]
39B05 General
39B12 Iteration theory, iterative and composite equations [See also 26A18, 30D05, 37–XX]
39B22 Equations for real functions [See also 26A51, 26B25]
39B32 Equations for complex functions [See also 30D05]
39B42 Matrix and operator equations [See also 47Jxx]
39B52 Equations for functions with more general domains and/or ranges
39B55 Orthogonal additivity and other conditional equations
39B62 Functional inequalities, including subadditivity, convexity, etc. [See also 26A51, 26B25, 26Dxx]
39B72 Systems of functional equations and inequalities
39B82 Stability, separation, extension, and related topics [See also 46A22]
39B99 None of the above, but in this section

40–XX SEQUENCES, SERIES, SUMMABILITY

40–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
40–01 Instructional exposition (textbooks, tutorial papers, etc.)
40–02 Research exposition (monographs, survey articles)
40–03 Historical (must also be assigned at least one classification number from Section 01)
40–04 Explicit machine computation and programs (not the theory of computation or programming)
40–06 Proceedings, conferences, collections, etc.

40Axxx Convergence and divergence of infinite limiting processes
40A05 Convergence and divergence of series and sequences
40A10 Convergence and divergence of integrals
40A15 Convergence and divergence of continued fractions [See also 30B70]
40A20 Convergence and divergence of infinite products
40A25 Approximation to limiting values (summation of series, etc.) {For the Euler-Maclaurin summation formula, see 65B15}
40A30 Convergence and divergence of series and sequences of functions
40A99 None of the above, but in this section

40B05 Multiple sequences and series (should also be assigned at least one other classification number in this section)

40Cxx General summability methods
40C05 Matrix methods
40C10 Integral methods
40C15 Function-theoretic methods (including power series methods and semicontinuous methods)
40C99 None of the above, but in this section

40Dxx Direct theorems on summability
40D05 General theorems
40D09 Structure of summability fields
40D10 Tauberian constants and oscillation limits
40D15 Convergence factors and summability factors
40D20 Summability and bounded fields of methods
40D25 Inclusion and equivalence theorems
40D99 None of the above, but in this section

40Exx Inversion theorems
40E05 Tauberian theorems, general
40E10 Growth estimates
40E15 Lacunary inversion theorems
40E20 Tauberian constants
40E99 None of the above, but in this section

40F05 Absolute and strong summability

40Gxx Special methods of summability
40G05 Cesàro, Euler, Nörlund and Hausdorff methods
40G10 Abel, Borel and power series methods
40G99 None of the above, but in this section

40H05 Functional analytic methods in summability

40J05 Summability in abstract structures [See also 43A55, 46A35, 46B15]

41–XX APPROXIMATIONS AND EXPANSIONS {For all approximation theory in the complex domain, see 30E05 and 30E10; for all trigonometric approximation and interpolation, see 42A10 and 42A15; for numerical approximation, see 65Dxx}

41–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
41–01 Instructional exposition (textbooks, tutorial papers, etc.)
41–02 Research exposition (monographs, survey articles)
41–03 Historical (must also be assigned at least one classification number from Section 01)

41–04 Explicit machine computation and programs (not the theory of computation or programming)
41–06 Proceedings, conferences, collections, etc.
41A05 Interpolation [See also 42A15 and 65D05]
41A10 Approximation by polynomials {For approximation by trigonometric polynomials, see 42A10}
41A15 Spline approximation
41A17 Inequalities in approximation (Bernstein, Jackson, Nikol′skiĭ-type inequalities)
41A20 Approximation by rational functions
41A21 Padé approximation
41A25 Rate of convergence, degree of approximation
41A27 Inverse theorems
41A28 Simultaneous approximation
41A29 Approximation with constraints
41A30 Approximation by other special function classes
41A35 Approximation by operators (in particular, by integral operators)
41A36 Approximation by positive operators
41A40 Saturation
41A44 Best constants
41A45 Approximation by arbitrary linear expressions
41A46 Approximation by arbitrary nonlinear expressions; widths and entropy
41A50 Best approximation, Chebyshev systems
41A52 Uniqueness of best approximation
41A55 Approximate quadratures
41A58 Series expansions (e.g. Taylor, Lidstone series, but not Fourier series)
41A60 Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [See also 30E15]
41A63 Multidimensional problems (should also be assigned at least one other classification number in this section)
41A65 Abstract approximation theory (approximation in normed linear spaces and other abstract spaces)
41A80 Remainders in approximation formulas
41A99 Miscellaneous topics

42–XX FOURIER ANALYSIS
42–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
42–01 Instructional exposition (textbooks, tutorial papers, etc.)
42–02 Research exposition (monographs, survey articles)
42–03 Historical (must also be assigned at least one classification number from Section 01)
42–04 Explicit machine computation and programs (not the theory of computation or programming)
42–06 Proceedings, conferences, collections, etc.
42Axx Fourier analysis in one variable
42A05 Trigonometric polynomials, inequalities, extremal problems
42A10 Trigonometric approximation
42A15 Trigonometric interpolation
42A16 Fourier coefficients, Fourier series of functions with special properties, special Fourier series {For automorphic theory, see mainly 11F30}
42A20 Convergence and absolute convergence of Fourier and trigonometric series
42A24 Summability and absolute summability of Fourier and trigonometric series
42A32 Trigonometric series of special types (positive coefficients, monotonic coefficients, etc.)
42A38 Fourier and Fourier-Stieltjes transforms and other transforms of Fourier type
42A45 Multipliers
42A50 Conjugate functions, conjugate series, singular integrals
42A55 Lacunary series of trigonometric and other functions; Riesz products
42A61 Probabilistic methods
42A63 Uniqueness of trigonometric expansions, uniqueness of Fourier expansions, Riemann theory, localization
42A65 Completeness of sets of functions
42A70 Trigonometric moment problems
42A75 Classical almost periodic functions, mean periodic functions [See also 43A60]
42A82 Positive definite functions
42A85 Convolution, factorization
42A99 None of the above, but in this section
42Bxx Fourier analysis in several variables {For automorphic theory, see mainly 11F30}
42B05 Fourier series and coefficients
42B08 Summability
42B10 Fourier and Fourier-Stieltjes transforms and other transforms of Fourier type
42B15 Multipliers
42B20 Singular integrals (Calderón-Zygmund, etc.)
42B25 Maximal functions, Littlewood-Paley theory
42B30 H^p-spaces
42B35 Function spaces arising in harmonic analysis
42B99 None of the above, but in this section
42Cxx Nontrigonometric Fourier analysis
42C05 Orthogonal functions and polynomials, general theory [See also 33C45, 33C50, 33D45]
42C10 Fourier series in special orthogonal functions (Legendre polynomials, Walsh functions, etc.)
42C15 Series of general orthogonal functions, generalized Fourier expansions, nonorthogonal expansions
42C20 Rearrangements and other transformations of Fourier and other orthogonal series
42C25 Uniqueness and localization for orthogonal series
42C30 Completeness of sets of functions
42C40 Wavelets
42C99 None of the above, but in this section

43–XX ABSTRACT HARMONIC ANALYSIS {For other analysis on topological and Lie groups, see 22Exx}
43–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
43–01 Instructional exposition (textbooks, tutorial papers, etc.)
43–02 Research exposition (monographs, survey articles)
43–03 Historical (must also be assigned at least one classification number from Section 01)
43–04 Explicit machine computation and programs (not the theory of computation or programming)
43–06 Proceedings, conferences, collections, etc.
43A05 Measures on groups and semigroups, etc.
43A07 Means on groups, semigroups, etc.; amenable groups
43A10 Measure algebras on groups, semigroups, etc.
43A15 L^p-spaces and other function spaces on groups, semigroups, etc.
43A17 Analysis on ordered groups, H^p-theory
43A20 L^1-algebras on groups, semigroups, etc.
43A22 Homomorphisms and multipliers of function spaces on groups, semigroups, etc.
43A25 Fourier and Fourier-Stieltjes transforms on locally compact abelian groups
43A30 Fourier and Fourier-Stieltjes transforms on nonabelian groups and on semigroups, etc.
43A32 Other transforms and operators of Fourier type
43A35 Positive definite functions on groups, semigroups, etc.
43A40 Character groups and dual objects
43A45 Spectral synthesis on groups, semigroups, etc.
43A46 Special sets (thin sets, Kronecker sets, Helson sets, Ditkin sets, Sidon sets, etc.)
43A50 Convergence of Fourier series and of inverse transforms
43A55 Summability methods on groups, semigroups, etc. [See also 40J05]
43A60 Almost periodic functions on groups and semigroups and their generalizations (recurrent functions, distal functions, etc.); almost automorphic functions
43A62 Hypergroups
43A65 Representations of groups, semigroups, etc. [See also 22A10, 22A20, 22Dxx, 22E45]
43A70 Analysis on specific locally compact abelian groups [See also 11R56, 22B05]
43A75 Analysis on specific compact groups
43A77 Analysis on general compact groups
43A80 Analysis on other specific Lie groups [See also 22Exx]
43A85 Analysis on homogeneous spaces
43A90 Spherical functions [See also 22E45, 22E46, 33C65]
43A95 Categorical methods [See also 46Mxx]
43A99 Miscellaneous topics

44–XX INTEGRAL TRANSFORMS, OPERATIONAL CALCULUS {For fractional derivatives and integrals, see 26A33. For Fourier transforms, see 42A38, 42B10. For integral transforms in distribution spaces, see 46F12. For numerical methods, see 65R10}
44–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
44–01 Instructional exposition (textbooks, tutorial papers, etc.)
44–02 Research exposition (monographs, survey articles)
44–03 Historical (must also be assigned at least one classification number from Section 01)
44–04 Explicit machine computation and programs (not the theory of computation or programming)
44–06 Proceedings, conferences, collections, etc.
44A05 General transforms [See also 42A38]
44A10 Laplace transform
44A12 Radon transform [See also 92C55]
44A15 Special transforms (Legendre, Hilbert, etc.)
44A20 Transforms of special functions
44A30 Multiple transforms
44A35 Convolution
44A40 Calculus of Mikusiński and other operational calculi
44A45 Classical operational calculus
44A55 Discrete operational calculus
44A60 Moment problems

44A99 Miscellaneous topics

45–XX INTEGRAL EQUATIONS
45–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
45–01 Instructional exposition (textbooks, tutorial papers, etc.)
45–02 Research exposition (monographs, survey articles)
45–03 Historical (must also be assigned at least one classification number from Section 01)
45–04 Explicit machine computation and programs (not the theory of computation or programming)
45–06 Proceedings, conferences, collections, etc.
45A05 Linear integral equations
45B05 Fredholm integral equations
45C05 Eigenvalue problems [See also 34Lxx, 35Pxx, 45P05, 47A75]
45D05 Volterra integral equations [See also 34A12]
45Exx Singular integral equations [See also 30E20, 30E25, 44A15, 44A35]
45E05 Integral equations with kernels of Cauchy type [See also 35J15]
45E10 Integral equations of the convolution type (Abel, Picard, Toeplitz and Wiener-Hopf type) [See also 47B35]
45E99 None of the above, but in this section
45Fxx Systems of linear integral equations
45F05 Systems of nonsingular linear integral equations
45F10 Dual, triple, etc., integral and series equations
45F15 Systems of singular linear integral equations
45F99 None of the above, but in this section
45Gxx Nonlinear integral equations [See also 47H30, 47Jxx]
45G05 Singular nonlinear integral equations
45G10 Other nonlinear integral equations
45G15 Systems of nonlinear integral equations
45H05 Miscellaneous special kernels [See also 44A15]
45J05 Integro-ordinary differential equations [See also 34K05, 34K30, 47G20]
45K05 Integro-partial differential equations [See also 34K30, 35R10, 47G20]
45L05 Theoretical approximation of solutions {For numerical analysis, see 65Rxx}
45Mxx Qualitative behavior
45M05 Asymptotics
45M10 Stability theory
45M15 Periodic solutions
45M20 Positive solutions
45M99 None of the above, but in this section
45N05 Abstract integral equations, integral equations in abstract spaces
45P05 Integral operators [See also 47B38, 47G10]
45Q05 Inverse problems
45R05 Random integral equations [See also 60H20]

46–XX FUNCTIONAL ANALYSIS {For manifolds modeled on topological linear spaces, see 57Nxx, 58Bxx}
46–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
46–01 Instructional exposition (textbooks, tutorial papers, etc.)
46–02 Research exposition (monographs, survey articles)
46–03 Historical (must also be assigned at least one classification number from Section 01)
46–04 Explicit machine computation and programs (not the theory of computation or programming)
46–06 Proceedings, conferences, collections, etc.
46Axx Topological linear spaces and related structures {For function spaces, see 46Exx}
46A03 General theory of locally convex spaces
46A04 Locally convex Fréchet spaces and (DF)-spaces
46A08 Barrelled spaces, bornological spaces
46A11 Spaces determined by compactness or summability properties (nuclear spaces, Schwartz spaces, Montel spaces, etc.)
46A13 Spaces defined by inductive or projective limits (LB, LF, etc.) [See also 46M40]
46A16 Not locally convex spaces (metrizable topological linear spaces, locally bounded spaces, quasi-Banach spaces, etc.)
46A17 Bornologies and related structures; Mackey convergence, etc.
46A19 Other "topological" linear spaces (convergence spaces, ranked spaces, spaces with a metric taking values in an ordered structure more general than $\mathbf{R}$, etc.)
46A20 Duality theory
46A22 Theorems of Hahn-Banach type; extension and lifting of functionals and operators [See also 46M10]
46A25 Reflexivity and semi-reflexivity [See also 46B10]
46A30 Open mapping and closed graph theorems; completeness (including B-, B_r-completeness)
46A32 Spaces of linear operators; topological tensor products; approximation properties [See also 46B28, 46M05, 47L05, 47L20]
46A35 Summability and bases [See also 46B15]
46A40 Ordered topological linear spaces, vector lattices [See also 06F20, 46B40, 46B42]
46A45 Sequence spaces (including Köthe sequence spaces) [See also 46B45]
46A50 Compactness in topological linear spaces; angelic spaces, etc.
46A55 Convex sets in topological linear spaces; Choquet theory [See also 52A07]
46A61 Graded Fréchet spaces and tame operators
46A63 Topological invariants ((DN), (Ω), etc.)
46A70 Saks spaces and their duals (strict topologies, mixed topologies, two-norm spaces, co-Saks spaces, etc.)
46A80 Modular spaces
46A99 None of the above, but in this section
46Bxx Normed linear spaces and Banach spaces; Banach lattices {For function spaces, see 46Exx}
46B03 Isomorphic theory (including renorming) of Banach spaces
46B04 Isometric theory of Banach spaces
46B07 Local theory of Banach spaces
46B08 Ultraproduct techniques in Banach space theory [See also 46M07]
46B09 Probabilistic methods in Banach space theory [See also 60Bxx]
46B10 Duality and reflexivity [See also 46A25]
46B15 Summability and bases [See also 46A35]
46B20 Geometry and structure of normed linear spaces
46B22 Radon-Nikodým, Kreĭn-Milman and related properties [See also 46G10]
46B25 Classical Banach spaces in the general theory
46B26 Nonseparable Banach spaces
46B28 Spaces of operators; tensor products; approximation properties [See also 46A32, 46M05, 47L05, 47L20]
46B40 Ordered normed spaces [See also 46A40, 46B42]
46B42 Banach lattices [See also 46A40, 46B40]
46B45 Banach sequence spaces [See also 46A45]
46B50 Compactness in Banach (or normed) spaces
46B70 Interpolation between normed linear spaces [See also 46M35]
46B99 None of the above, but in this section
46Cxx Inner product spaces and their generalizations, Hilbert spaces {For function spaces, see 46Exx}
46C05 Hilbert and pre-Hilbert spaces: geometry and topology (including spaces with semidefinite inner product)
46C07 Hilbert subspaces (= operator ranges); complementation (Aronszajn, de Branges, etc.) [See also 46B70, 46M35]
46C15 Characterizations of Hilbert spaces
46C20 Spaces with indefinite inner product (Kreĭn spaces, Pontryagin spaces, etc.) [See also 47B50]
46C50 Generalizations of inner products (semi-inner products, partial inner products, etc.)
46C99 None of the above, but in this section
46Exx Linear function spaces and their duals [See also 30H05, 32A38, 46F05] {For function algebras, see 46J10}
46E05 Lattices of continuous, differentiable or analytic functions
46E10 Topological linear spaces of continuous, differentiable or analytic functions
46E15 Banach spaces of continuous, differentiable or analytic functions
46E20 Hilbert spaces of continuous, differentiable or analytic functions
46E22 Hilbert spaces with reproducing kernels (= [proper] functional Hilbert spaces, including de Branges-Rovnyak and other structured spaces) [See also 47B32]
46E25 Rings and algebras of continuous, differentiable or analytic functions {For Banach function algebras, see 46J10, 46J15}
46E27 Spaces of measures [See also 28A33, 46Gxx]
46E30 Spaces of measurable functions (L^p-spaces, Orlicz spaces, Köthe function spaces, Lorentz spaces, rearrangement invariant spaces, ideal spaces, etc.)
46E35 Sobolev spaces and other spaces of "smooth" functions, embedding theorems, trace theorems
46E39 Sobolev (and similar kinds of) spaces of functions of discrete variables
46E40 Spaces of vector- and operator-valued functions
46E50 Spaces of differentiable or holomorphic functions on infinite-dimensional spaces [See also 46G20, 46G25, 47H60]
46E99 None of the above, but in this section
46Fxx Distributions, generalized functions, distribution spaces [See also 46T30]
46F05 Topological linear spaces of test functions, distributions and ultradistributions [See also 46E10, 46E35]
46F10 Operations with distributions
46F12 Integral transforms in distribution spaces [See also 42–XX, 44–XX]
46F15 Hyperfunctions, analytic functionals [See also 32A25, 32A45, 32C35, 58J15]
46F20 Distributions and ultradistributions as boundary values of analytic functions [See also 30D40, 30E25, 32A40]
46F25 Distributions on infinite-dimensional spaces [See also 58C35]
46F30 Generalized functions for nonlinear analysis (Rosinger, Colombeau, nonstandard, etc.)
46F99 None of the above, but in this section
46Gxx Measures, integration, derivative, holomorphy (all involving infinite-dimensional spaces) [See also 28–XX, 46Txx]
46G05 Derivatives [See also 46T20, 58C20, 58C25]
46G10 Vector-valued measures and integration [See also 28Bxx, 46B22]

46G12 Measures and integration on abstract linear spaces [See also 28C20, 46T12]
46G15 Functional analytic lifting theory [See also 28A51]
46G20 Infinite-dimensional holomorphy [See also 32–XX, 46E50, 46T25, 58B12, 58C10]
46G25 (Spaces of) multilinear mappings, polynomials [See also 46E50, 46G20, 47H60]
46G99 None of the above, but in this section
46Hxx Topological algebras, normed rings and algebras, Banach algebras {For group algebras, convolution algebras and measure algebras, see 43A10, 43A20}
46H05 General theory of topological algebras
46H10 Ideals and subalgebras
46H15 Representations of topological algebras
46H20 Structure, classification of topological algebras
46H25 Normed modules and Banach modules, topological modules (if not placed in 13–XX or 16–XX)
46H30 Functional calculus in topological algebras [See also 47A60]
46H35 Topological algebras of operators [See mainly 47Lxx]
46H40 Automatic continuity
46H70 Nonassociative topological algebras [See also 46K70, 46L70]
46H99 None of the above, but in this section
46Jxx Commutative Banach algebras and commutative topological algebras [See also 46E25]
46J05 General theory of commutative topological algebras
46J10 Banach algebras of continuous functions, function algebras [See also 46E25]
46J15 Banach algebras of differentiable or analytic functions, H^p-spaces [See also 30D55, 30H05, 32A35, 32A37, 32A38, 42B30]
46J20 Ideals, maximal ideals, boundaries
46J25 Representations of commutative topological algebras
46J30 Subalgebras
46J40 Structure, classification of commutative topological algebras
46J45 Radical Banach algebras
46J99 None of the above, but in this section
46Kxx Topological (rings and) algebras with an involution [See also 16W10]
46K05 General theory of topological algebras with involution
46K10 Representations of topological algebras with involution
46K15 Hilbert algebras
46K50 Nonselfadjoint (sub)algebras in algebras with involution
46K70 Nonassociative topological algebras with an involution [See also 46H70, 46L70]
46K99 None of the above, but in this section
46Lxx Selfadjoint operator algebras (C^*-algebras, von Neumann (W^*-) algebras, etc.) [See also 22D25, 47Lxx]
46L05 General theory of C^*-algebras
46L06 Tensor products of C^*-algebras
46L07 Operator spaces and completely bounded maps [See also 47L25]
46L08 C^*-modules
46L09 Free products of C^*-algebras
46L10 General theory of von Neumann algebras
46L30 States
46L35 Classifications of C^*-algebras, factors
46L37 Subfactors and their classification
46L40 Automorphisms
46L45 Decomposition theory for C^*-algebras
46L51 Noncommutative measure and integration
46L52 Noncommutative function spaces
46L53 Noncommutative probability and statistics
46L54 Free probability and free operator algebras
46L55 Noncommutative dynamical systems [See also 28Dxx, 37Kxx, 37Lxx, 54H20]
46L57 Derivations, dissipations and positive semigroups in C^*-algebras
46L60 Applications of selfadjoint operator algebras to physics [See also 46N50, 46N55, 47L90, 81T05, 82B10, 82C10]
46L65 Quantizations, deformations
46L70 Nonassociative selfadjoint operator algebras [See also 46H70, 46K70]
46L80 K-theory and operator algebras (including cyclic theory) [See also 18F25, 19Kxx, 46M20, 55Rxx, 58J22]
46L85 Noncommutative topology [See also 58B32, 58B34, 58J22]
46L87 Noncommutative differential geometry [See also 58B32, 58B34, 58J22]
46L89 Other "noncommutative" mathematics based on C^*-algebra theory [See also 58B32, 58B34, 58J22]
46L99 None of the above, but in this section
46Mxx Methods of category theory in functional analysis [See also 18–XX]
46M05 Tensor products [See also 46A32, 46B28, 47A80]
46M07 Ultraproducts [See also 46B08, 46S20]
46M10 Projective and injective objects [See also 46A22]
46M15 Categories, functors {For K-theory, EXT, etc., see 19K33, 46L80, 46M18, 46M20}
46M18 Homological methods (exact sequences, right inverses, lifting, etc.)
46M20 Methods of algebraic topology (cohomology, sheaf and bundle theory, etc.) [See also 14F05, 18Fxx, 19Kxx, 32Cxx, 32Lxx, 46L80, 46M15, 46M18, 55Rxx]
46M35 Abstract interpolation of topological vector spaces [See also 46B70]
46M40 Inductive and projective limits [See also 46A13]
46M99 None of the above, but in this section
46Nxx Miscellaneous applications of functional analysis [See also 47Nxx]
46N10 Applications in optimization, convex analysis, mathematical programming, economics
46N20 Applications to differential and integral equations
46N30 Applications in probability theory and statistics
46N40 Applications in numerical analysis [See also 65Jxx]
46N50 Applications in quantum physics
46N55 Applications in statistical physics
46N60 Applications in biology and other sciences
46N99 None of the above, but in this section
46Sxx Other (nonclassical) types of functional analysis [See also 47Sxx]
46S10 Functional analysis over fields other than **R** or **C** or the quaternions; non-Archimedean functional analysis [See also 12J25, 32P05]
46S20 Nonstandard functional analysis [See also 03H05]
46S30 Constructive functional analysis [See also 03F60]
46S40 Fuzzy functional analysis [See also 03E72]
46S50 Functional analysis in probabilistic metric linear spaces
46S60 Functional analysis on superspaces (supermanifolds) or graded spaces [See also 58A50 and 58C50]
46S99 None of the above, but in this section
46Txx Nonlinear functional analysis [See also 47Hxx, 47Jxx, 58Cxx, 58Dxx]
46T05 Infinite-dimensional manifolds [See also 53Axx, 57N20, 58Bxx, 58Dxx]
46T10 Manifolds of mappings
46T12 Measure (Gaussian, cylindrical, etc.) and integrals (Feynman, path, Fresnel, etc.) on manifolds [See also 28Cxx, 46G12, 60–XX]
46T20 Continuous and differentiable maps [See also 46G05]
46T25 Holomorphic maps [See also 46G20]
46T30 Distributions and generalized functions on nonlinear spaces [See also 46Fxx]
46T99 None of the above, but in this section

47–XX OPERATOR THEORY

47–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
47–01 Instructional exposition (textbooks, tutorial papers, etc.)
47–02 Research exposition (monographs, survey articles)
47–03 Historical (must also be assigned at least one classification number from Section 01)
47–04 Explicit machine computation and programs (not the theory of computation or programming)
47–06 Proceedings, conferences, collections, etc.
47Axx General theory of linear operators
47A05 General (adjoints, conjugates, products, inverses, domains, ranges, etc.)
47A06 Linear relations (multivalued linear operators)
47A07 Forms (bilinear, sesquilinear, multilinear)
47A10 Spectrum, resolvent
47A11 Local spectral properties
47A12 Numerical range, numerical radius
47A13 Several-variable operator theory (spectral, Fredholm, etc.)
47A15 Invariant subspaces
47A16 Cyclic and hypercyclic vectors
47A20 Dilations, extensions, compressions
47A25 Spectral sets
47A30 Norms (inequalities, more than one norm, etc.)
47A35 Ergodic theory [See also 28Dxx, 37Axx]
47A40 Scattering theory [See also 34L25, 35P25, 81Uxx]
47A45 Canonical models for contractions and nonselfadjoint operators
47A46 Chains (nests) of projections or of invariant subspaces, integrals along chains, etc.
47A48 Operator colligations (= nodes), vessels, linear systems, characteristic functions, realizations, etc.
47A50 Equations and inequalities involving linear operators, with vector unknowns
47A52 Ill-posed problems, regularization
47A53 (Semi-) Fredholm operators; index theories [See also 58B15, 58J20]
47A55 Perturbation theory
47A56 Functions whose values are linear operators (operator and matrix valued functions, etc., including analytic and meromorphic ones)
47A57 Operator methods in interpolation, moment and extension problems [See also 30E05, 42A70, 42A82, 44A60]
47A58 Operator approximation theory
47A60 Functional calculus
47A62 Equations involving linear operators, with operator unknowns
47A63 Operator inequalities
47A64 Operator means, shorted operators, etc.

47A65 Structure theory
47A66 Quasitriangular and nonquasitriangular, quasidiagonal and nonquasidiagonal operators
47A67 Representation theory
47A68 Factorization theory (including Wiener-Hopf and spectral factorizations)
47A70 (Generalized) eigenfunction expansions; rigged Hilbert spaces
47A75 Eigenvalue problems [See also 49R50]
47A80 Tensor products of operators [See also 46M05]
47A99 None of the above, but in this section

47Bxx Special classes of linear operators
47B06 Riesz operators; eigenvalue distributions; approximation numbers, s-numbers, Kolmogorov numbers, entropy numbers, etc. of operators
47B07 Operators defined by compactness properties
47B10 Operators belonging to operator ideals (nuclear, p-summing, in the Schatten-von Neumann classes, etc.) [See also 47L20]
47B15 Hermitian and normal operators (spectral measures, functional calculus, etc.)
47B20 Subnormal operators, hyponormal operators, etc.
47B25 Symmetric and selfadjoint operators (unbounded)
47B32 Operators in reproducing-kernel Hilbert spaces (including de Branges, de Branges-Rovnyak, and other structured spaces) [See also 46E22]
47B33 Composition operators
47B34 Kernel operators
47B35 Toeplitz operators, Hankel operators, Wiener-Hopf operators [See also 45P05, 47G10 for other integral operators; see also 32A25, 32M15]
47B36 Jacobi (tridiagonal) operators (matrices) and generalizations
47B37 Operators on special spaces (weighted shifts, operators on sequence spaces, etc.)
47B38 Operators on function spaces (general)
47B39 Difference operators [See also 39A70]
47B40 Spectral operators, decomposable operators, well-bounded operators, etc.
47B44 Accretive operators, dissipative operators, etc.
47B47 Commutators, derivations, elementary operators, etc.
47B48 Operators on Banach algebras
47B49 Transformers (= operators on spaces of operators)
47B50 Operators on spaces with an indefinite metric [See also 46C50]
47B60 Operators on ordered spaces
47B65 Positive operators and order-bounded operators
47B80 Random operators [See also 60H25]
47B99 None of the above, but in this section

47Cxx Individual linear operators as elements of algebraic systems
47C05 Operators in algebras
47C10 Operators in *-algebras
47C15 Operators in C^*- or von Neumann algebras
47C99 None of the above, but in this section

47Dxx Groups and semigroups of linear operators, their generalizations and applications
47D03 Groups and semigroups of linear operators {For nonlinear operators, see 47H20; see also 20M20}
47D06 One-parameter semigroups and linear evolution equations [See also 34G10, 34K30]
47D07 Markov semigroups and applications to diffusion processes {For Markov processes, see 60Jxx}
47D08 Schrödinger and Feynman-Kac semigroups
47D09 Operator sine and cosine functions and higher-order Cauchy problems [See also 34G10]
47D60 C-semigroups
47D62 Integrated semigroups
47D99 None of the above, but in this section

47E05 Ordinary differential operators [See also 34Bxx, 34Lxx]
47F05 Partial differential operators [See also 35Pxx, 58Jxx]

47Gxx Integral, integro-differential, and pseudodifferential operators [See also 58Jxx]
47G10 Integral operators [See also 45P05]
47G20 Integro-differential operators [See also 34K30, 35R10, 45J05, 45K05]
47G30 Pseudodifferential operators [See also 35Sxx, 58Jxx]
47G99 None of the above, but in this section

47Hxx Nonlinear operators and their properties {For global and geometric aspects, see 58–XX, especially 58Cxx}
47H04 Set-valued operators [See also 28B20, 54C60, 58C06]
47H05 Monotone operators (with respect to duality)
47H06 Accretive operators, dissipative operators, etc.
47H07 Monotone and positive operators on ordered Banach spaces or other ordered topological vector spaces
47H09 Nonexpansive mappings, and their generalizations (ultimately compact mappings, measures of noncompactness and condensing mappings, A-proper mappings, K-set contractions, etc.)
47H10 Fixed-point theorems [See also 54H25, 55M20, 58C30]
47H11 Degree theory [See also 55M25, 58C30]
47H14 Perturbations of nonlinear operators
47H20 Semigroups of nonlinear operators
47H30 Particular nonlinear operators (superposition, Hammerstein, Nemytskiĭ, Uryson, etc.) [See also 45Gxx, 45P05]
47H40 Random operators [See also 60H25]
47H50 Potential operators
47H60 Multilinear and polynomial operators [See also 46G25]
47H99 None of the above, but in this section

47Jxx Equations and inequalities involving nonlinear operators [See also 46Txx] {For global and geometric aspects, see 58–XX}
47J05 Equations involving nonlinear operators (general)
47J06 Nonlinear ill-posed problems
47J07 Abstract inverse mapping and implicit function theorems [See also 46T20 and 58C15]
47J10 Nonlinear eigenvalue problems
47J15 Abstract bifurcation theory [See also 58E07, 58E09]
47J20 Variational and other types of inequalities involving nonlinear operators (general)
47J25 Methods for solving nonlinear operator equations (general)
47J30 Variational methods [See also 58Exx]
47J35 Nonlinear evolution equations [See also 34G20, 35K90, 35L90, 35Qxx, 35R20, 37Kxx, 37Lxx, 58D25]
47J40 Equations with hysteresis operators
47J99 None of the above, but in this section

47Lxx Linear spaces and algebras of operators [See also 46Lxx]
47L05 Linear spaces of operators [See also 46A32 and 46B28]
47L07 Convex sets and cones of operators [See also 46A55]
47L10 Algebras of operators on Banach spaces and other topological linear spaces
47L15 Operator algebras with symbol structure
47L20 Operator ideals
47L25 Operator spaces (= matricially normed spaces) [See also 46L07]
47L30 Abstract operator algebras on Hilbert spaces
47L35 Nest algebras, CSL algebras
47L40 Limit algebras, subalgebras of C^*-algebras
47L45 Dual algebras; weakly closed singly generated operator algebras
47L50 Dual spaces of operator algebras
47L55 Representations of (nonselfadjoint) operator algebras
47L60 Algebras of unbounded operators; partial algebras of operators
47L65 Crossed product algebras (analytic crossed products)
47L70 Nonassociative nonselfadjoint operator algebras
47L75 Other nonselfadjoint operator algebras
47L80 Algebras of specific types of operators (Toeplitz, integral, pseudodifferential, etc.)
47L90 Applications of operator algebras to physics
47L99 None of the above, but in this section

47Nxx Miscellaneous applications of operator theory [See also 46Nxx]
47N10 Applications in optimization, convex analysis, mathematical programming, economics
47N20 Applications to differential and integral equations
47N30 Applications in probability theory and statistics
47N40 Applications in numerical analysis [See also 65Jxx]
47N50 Applications in quantum physics
47N55 Applications in statistical physics
47N60 Applications in biology and other sciences
47N70 Applications in systems theory, circuits, etc.
47N99 None of the above, but in this section

47Sxx Other (nonclassical) types of operator theory [See also 46Sxx]
47S10 Operator theory over fields other than **R**, **C** or the quaternions; non-Archimedean operator theory
47S20 Nonstandard operator theory [See also 03H05]
47S30 Constructive operator theory [See also 03F60]
47S40 Fuzzy operator theory [See also 03E72]
47S50 Operator theory in probabilistic metric linear spaces
47S99 None of the above, but in this section

49–XX CALCULUS OF VARIATIONS AND OPTIMAL CONTROL; OPTIMIZATION [See also 34H05, 34K35, 65Kxx, 90Cxx, 93–XX]

49–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
49–01 Instructional exposition (textbooks, tutorial papers, etc.)
49–02 Research exposition (monographs, survey articles)
49–03 Historical (must also be assigned at least one classification number from Section 01)
49–04 Explicit machine computation and programs (not the theory of computation or programming)
49–06 Proceedings, conferences, collections, etc.

49Jxx Existence theories
49J05 Free problems in one independent variable
49J10 Free problems in two or more independent variables
49J15 Optimal control problems involving ordinary differential equations
49J20 Optimal control problems involving partial differential equations
49J22 Optimal control problems involving integral equations

49J24 Optimal control problems involving differential inclusions [See also 34A60]
49J25 Optimal control problems involving equations with retarded arguments [See also 34K35]
49J27 Problems in abstract spaces [See also 90C48, 93C25]
49J30 Optimal solutions belonging to restricted classes (Lipschitz controls, bang-bang controls, etc.)
49J35 Minimax problems
49J40 Variational methods including variational inequalities [See also 47J20]
49J45 Methods involving semicontinuity and convergence; relaxation
49J50 Fréchet and Gateaux differentiability [See also 46G05, 58C20]
49J52 Nonsmooth analysis [See also 46G05, 58C50]
49J53 Set-valued and variational analysis [See also 28B20, 47H04, 54C60, 58C06]
49J55 Problems involving randomness [See also 93E20]
49J99 None of the above, but in this section
49Kxx Necessary conditions and sufficient conditions for optimality
49K05 Free problems in one independent variable
49K10 Free problems in two or more independent variables
49K15 Problems involving ordinary differential equations
49K20 Problems involving partial differential equations
49K22 Problems involving integral equations
49K24 Problems involving differential inclusions [See also 34A60]
49K25 Problems involving equations with retarded arguments [See also 34K35]
49K27 Problems in abstract spaces [See also 90C48, 93C25]
49K30 Optimal solutions belonging to restricted classes
49K35 Minimax problems
49K40 Sensitivity, stability, well-posedness [See also 90C31]
49K45 Problems involving randomness [See also 93E20]
49K99 None of the above, but in this section
49Lxx Hamilton-Jacobi theories, including dynamic programming
49L20 Dynamic programming method
49L25 Viscosity solutions
49L99 None of the above, but in this section
49Mxx Methods of successive approximations [See also 90Cxx, 65Kxx]
49M05 Methods based on necessary conditions
49M15 Methods of Newton-Raphson, Galerkin and Ritz types
49M20 Methods of relaxation type
49M25 Discrete approximations
49M27 Decomposition methods
49M29 Methods involving duality
49M30 Other methods, not based on necessary conditions (penalty function, etc.)
49M37 Methods of nonlinear programming type [See also 90C30, 65Kxx]
49M99 None of the above, but in this section
49Nxx Miscellaneous topics
49N05 Linear optimal control problems [See also 93C05]
49N10 Linear-quadratic problems
49N15 Duality theory
49N20 Periodic optimization
49N25 Impulsive optimal control problems
49N30 Problems with incomplete information [See also 93C41]
49N35 Optimal feedback synthesis [See also 93B52]
49N45 Inverse problems
49N60 Regularity of solutions
49N70 Differential games
49N75 Pursuit and evasion games
49N90 Applications of optimal control and differential games [See also 90C90, 93C95]
49N99 None of the above, but in this section
49Qxx Manifolds [See also 58Exx]
49Q05 Minimal surfaces [See also 53A10, 58E12]
49Q10 Optimization of shapes other than minimal surfaces [See also 90C90]
49Q12 Sensitivity analysis
49Q15 Geometric measure and integration theory, integral and normal currents [See also 28A75, 32C30, 58A25, 58C35]
49Q20 Variational problems in a geometric measure-theoretic setting
49Q99 None of the above, but in this section
49R50 Variational methods for eigenvalues of operators [See also 47A75]
49S05 Variational principles of physics

51–XX GEOMETRY {For algebraic geometry, see 14–XX}
51–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
51–01 Instructional exposition (textbooks, tutorial papers, etc.)
51–02 Research exposition (monographs, survey articles)
51–03 Historical (must also be assigned at least one classification number from Section 01)
51–04 Explicit machine computation and programs (not the theory of computation or programming)
51–06 Proceedings, conferences, collections, etc.

51Axx Linear incidence geometry
51A05 General theory and projective geometries
51A10 Homomorphism, automorphism and dualities
51A15 Structures with parallelism
51A20 Configuration theorems
51A25 Algebraization [See also 12Kxx, 20N05]
51A30 Desarguesian and Pappian geometries
51A35 Non-Desarguesian affine and projective planes
51A40 Translation planes and spreads
51A45 Incidence structures imbeddable into projective geometries
51A50 Polar geometry, symplectic spaces, orthogonal spaces
51A99 None of the above, but in this section
51Bxx Nonlinear incidence geometry
51B05 General theory
51B10 Möbius geometries
51B15 Laguerre geometries
51B20 Minkowski geometries
51B25 Lie geometries
51B99 None of the above, but in this section
51C05 Ring geometry (Hjelmslev, Barbilian, etc.)
51Dxx Geometric closure systems
51D05 Abstract (Maeda) geometries
51D10 Abstract geometries with exchange axiom
51D15 Abstract geometries with parallelism
51D20 Combinatorial geometries [See also 05B25, 05B35]
51D25 Lattices of subspaces [See also 05B35]
51D30 Continuous geometries and related topics [See also 06Cxx]
51D99 None of the above, but in this section
51Exx Finite geometry and special incidence structures
51E05 General block designs [See also 05B05]
51E10 Steiner systems
51E12 Generalized quadrangles, generalized polygons
51E14 Finite partial geometries (general), nets, partial spreads
51E15 Affine and projective planes
51E20 Combinatorial structures in finite projective spaces [See also 05Bxx]
51E21 Blocking sets, ovals, k-arcs
51E22 Linear codes and caps in Galois spaces [See also 94B05]
51E23 Spreads and packing problems
51E24 Buildings and the geometry of diagrams
51E25 Other finite nonlinear geometries
51E26 Other finite linear geometries
51E30 Other finite incidence structures [See also 05B30]
51E99 None of the above, but in this section
51Fxx Metric geometry
51F05 Absolute planes
51F10 Absolute spaces
51F15 Reflection groups, reflection geometries [See also 20H10, 20H15; for Coxeter groups, see 20F55]
51F20 Congruence and orthogonality [See also 20H05]
51F25 Orthogonal and unitary groups [See also 20H05]
51F99 None of the above, but in this section
51G05 Ordered geometries (ordered incidence structures, etc.)
51Hxx Topological geometry
51H05 General theory
51H10 Topological linear incidence structures
51H15 Topological nonlinear incidence structures
51H20 Topological geometries on manifolds [See also 57–XX]
51H25 Geometries with differentiable structure [See also 53Cxx, 53C70]
51H30 Geometries with algebraic manifold structure [See also 14–XX]
51H99 None of the above, but in this section
51Jxx Incidence groups
51J05 General theory
51J10 Projective incidence groups
51J15 Kinematic spaces
51J20 Representation by near-fields and near-algebras [See also 12K05, 16Y30]
51J99 None of the above, but in this section
51Kxx Distance geometry
51K05 General theory
51K10 Synthetic differential geometry
51K99 None of the above, but in this section
51Lxx Geometric order structures [See also 53C75]
51L05 Geometry of orders of nondifferentiable curves
51L10 Directly differentiable curves
51L15 n-vertex theorems via direct methods
51L20 Geometry of orders of surfaces
51L99 None of the above, but in this section
51Mxx Real and complex geometry
51M04 Elementary problems in Euclidean geometries
51M05 Euclidean geometries (general) and generalizations
51M09 Elementary problems in hyperbolic and elliptic geometries
51M10 Hyperbolic and elliptic geometries (general) and generalizations

51M15 Geometric constructions
51M16 Inequalities and extremum problems {For convex problems, see 52A40}
51M20 Polyhedra and polytopes; regular figures, division of spaces [See also 51F15]
51M25 Length, area and volume [See also 26B15]
51M30 Line geometries and their generalizations [See also 53A25]
51M35 Synthetic treatment of fundamental manifolds in projective geometries (Grassmannians, Veronesians and their generalizations) [See also 14M15]
51M99 None of the above, but in this section

51Nxx Analytic and descriptive geometry
51N05 Descriptive geometry [See also 65D17, 68U07]
51N10 Affine analytic geometry
51N15 Projective analytic geometry
51N20 Euclidean analytic geometry
51N25 Analytic geometry with other transformation groups
51N30 Geometry of classical groups [See also 20Gxx, 14L35]
51N35 Questions of classical algebraic geometry [See also 14Nxx]
51N99 None of the above, but in this section

51P05 Geometry and physics (should also be assigned at least one other classification number from Sections 70–86)

52–XX CONVEX AND DISCRETE GEOMETRY

52–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
52–01 Instructional exposition (textbooks, tutorial papers, etc.)
52–02 Research exposition (monographs, survey articles)
52–03 Historical (must also be assigned at least one classification number from Section 01)
52–04 Explicit machine computation and programs (not the theory of computation or programming)
52–06 Proceedings, conferences, collections, etc.

52Axx General convexity
52A01 Axiomatic and generalized convexity
52A05 Convex sets without dimension restrictions
52A07 Convex sets in topological vector spaces [See also 46A55]
52A10 Convex sets in 2 dimensions (including convex curves) [See also 53A04]
52A15 Convex sets in 3 dimensions (including convex surfaces) [See also 53A05, 53C45]
52A20 Convex sets in n dimensions (including convex hypersurfaces) [See also 53A07, 53C45]
52A21 Finite-dimensional Banach spaces (including special norms, zonoids, etc.) [See also 46Bxx]
52A22 Random convex sets and integral geometry [See also 53C65, 60D05]
52A27 Approximation by convex sets
52A30 Variants of convex sets (star-shaped, (m, n)-convex, etc.)
52A35 Helly-type theorems and geometric transversal theory
52A37 Other problems of combinatorial convexity
52A38 Length, area, volume [See also 26B15, 28A75, 49Q20]
52A39 Mixed volumes and related topics
52A40 Inequalities and extremum problems
52A41 Convex functions and convex programs [See also 26B25, 90C25]
52A55 Spherical and hyperbolic convexity
52A99 None of the above, but in this section

52Bxx Polytopes and polyhedra
52B05 Combinatorial properties (number of faces, shortest paths, etc.) [See also 05Cxx]
52B10 Three-dimensional polytopes
52B11 n-dimensional polytopes
52B12 Special polytopes (linear programming, centrally symmetric, etc.)
52B15 Symmetry properties of polytopes
52B20 Lattice polytopes (including relations with commutative algebra and algebraic geometry) [See also 06A11, 13F20, 13Hxx]
52B22 Shellability
52B35 Gale and other diagrams
52B40 Matroids (realizations in the context of convex polytopes, convexity in combinatorial structures, etc.) [See also 05B35, 52Cxx]
52B45 Dissections and valuations (Hilbert's third problem, etc.)
52B55 Computational aspects related to convexity {For computational geometry and algorithms, see 68Q25, 68U05; for numerical algorithms, see 65Yxx} [See also 68Uxx]
52B60 Isoperimetric problems for polytopes
52B70 Polyhedral manifolds
52B99 None of the above, but in this section

52Cxx Discrete geometry
52C05 Lattices and convex bodies in 2 dimensions [See also 11H06, 11H31, 11P21]
52C07 Lattices and convex bodies in n dimensions [See also 11H06, 11H31, 11P21]
52C10 Erdős problems and related topics of discrete geometry [See also 11Hxx]
52C15 Packing and covering in 2 dimensions [See also 05B40, 11H31]
52C17 Packing and covering in n dimensions [See also 05B40, 11H31]
52C20 Tilings in 2 dimensions [See also 05B45, 51M20]
52C22 Tilings in n dimensions [See also 05B45, 51M20]
52C23 Quasicrystals, aperiodic tilings
52C25 Rigidity and flexibility of structures [See also 70B15]
52C26 Circle packings and discrete conformal geometry
52C30 Planar arrangements of lines and pseudolines
52C35 Arrangements of points, flats, hyperplanes [See also 32S22]
52C40 Oriented matroids
52C45 Combinatorial complexity of geometric structures [See also 68U05]
52C99 None of the above, but in this section

53–XX DIFFERENTIAL GEOMETRY {For differential topology, see 57Rxx. For foundational questions of differentiable manifolds, see 58Axx}

53–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
53–01 Instructional exposition (textbooks, tutorial papers, etc.)
53–02 Research exposition (monographs, survey articles)
53–03 Historical (must also be assigned at least one classification number from Section 01)
53–04 Explicit machine computation and programs (not the theory of computation or programming)
53–06 Proceedings, conferences, collections, etc.

53Axx Classical differential geometry
53A04 Curves in Euclidean space
53A05 Surfaces in Euclidean space
53A07 Higher-dimensional and -codimensional surfaces in Euclidean n-space
53A10 Minimal surfaces, surfaces with prescribed mean curvature [See also 49Q05, 49Q10, 53C42]
53A15 Affine differential geometry
53A17 Kinematics
53A20 Projective differential geometry
53A25 Differential line geometry
53A30 Conformal differential geometry
53A35 Non-Euclidean differential geometry
53A40 Other special differential geometries
53A45 Vector and tensor analysis
53A55 Differential invariants (local theory), geometric objects
53A60 Geometry of webs [See also 14C21, 20N05]
53A99 None of the above, but in this section

53Bxx Local differential geometry
53B05 Linear and affine connections
53B10 Projective connections
53B15 Other connections
53B20 Local Riemannian geometry
53B21 Methods of Riemannian geometry
53B25 Local submanifolds [See also 53C40]
53B30 Lorentz metrics, indefinite metrics
53B35 Hermitian and Kählerian structures [See also 32Cxx]
53B40 Finsler spaces and generalizations (areal metrics)
53B50 Applications to physics
53B99 None of the above, but in this section

53Cxx Global differential geometry [See also 51H25, 58–XX; for related bundle theory, see 55Rxx, 57Rxx]
53C05 Connections, general theory
53C07 Special connections and metrics on vector bundles (Hermite-Einstein-Yang-Mills) [See also 32Q20]
53C10 G-structures
53C12 Foliations (differential geometric aspects) [See also 57R30, 57R32]
53C15 General geometric structures on manifolds (almost complex, almost product structures, etc.)
53C17 Sub-Riemannian geometry
53C20 Global Riemannian geometry, including pinching [See also 31C12, 58B20]
53C21 Methods of Riemannian geometry, including PDE methods; curvature restrictions [See also 58J60]
53C22 Geodesics [See also 58E10]
53C23 Global topological methods (à la Gromov)
53C24 Rigidity results
53C25 Special Riemannian manifolds (Einstein, Sasakian, etc.)
53C26 Hyper-Kähler and quaternionic Kähler geometry, "special" geometry
53C27 Spin and Spin^c geometry
53C28 Twistor methods [See also 32L25]
53C29 Issues of holonomy
53C30 Homogeneous manifolds [See also 14M15, 14M17, 32M10, 57T15]
53C35 Symmetric spaces [See also 32M15, 57T15]
53C38 Calibrations and calibrated geometries
53C40 Global submanifolds [See also 53B25]
53C42 Immersions (minimal, prescribed curvature, tight, etc.) [See also 49Q05, 49Q10, 53A10, 57R40, 57R42]
53C43 Differential geometric aspects of harmonic maps [See also 58E20]
53C44 Geometric evolution equations (mean curvature flow)

53C45 Global surface theory (convex surfaces à la A. D. Aleksandrov)
53C50 Lorentz manifolds, manifolds with indefinite metrics
53C55 Hermitian and Kählerian manifolds [See also 32Cxx]
53C56 Other complex differential geometry [See also 32Cxx]
53C60 Finsler spaces and generalizations (areal metrics) [See also 58B20]
53C65 Integral geometry [See also 52A22, 60D05]; differential forms, currents, etc. [See mainly 58Axx]
53C70 Direct methods (G-spaces of Busemann, etc.)
53C75 Geometric orders, order geometry [See also 51Lxx]
53C80 Applications to physics
53C99 None of the above, but in this section
53Dxx Symplectic geometry, contact geometry [See also 37Jxx, 70Gxx, 70Hxx]
53D05 Symplectic manifolds, general
53D10 Contact manifolds, general
53D12 Lagrangian submanifolds; Maslov index
53D15 Almost contact and almost symplectic manifolds
53D17 Poisson manifolds
53D20 Momentum maps; symplectic reduction
53D22 Canonical transformations
53D25 Geodesic flows
53D30 Symplectic structures of moduli spaces
53D35 Global theory of symplectic and contact manifolds [See also 57Rxx]
53D40 Floer homology and cohomology, symplectic aspects
53D45 Gromov-Witten invariants, quantum cohomology, Frobenius manifolds [See also 14N35]
53D50 Geometric quantization
53D55 Deformation quantization, star products
53D99 None of the above, but in this section
53Z05 Applications to physics

54–XX GENERAL TOPOLOGY {For the topology of manifolds of all dimensions, see 57Nxx}
54–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
54–01 Instructional exposition (textbooks, tutorial papers, etc.)
54–02 Research exposition (monographs, survey articles)
54–03 Historical (must also be assigned at least one classification number from Section 01)
54–04 Explicit machine computation and programs (not the theory of computation or programming)
54–06 Proceedings, conferences, collections, etc.
54Axx Generalities
54A05 Topological spaces and generalizations (closure spaces, etc.)
54A10 Several topologies on one set (change of topology, comparison of topologies, lattices of topologies)
54A15 Syntopogeneous structures
54A20 Convergence in general topology (sequences, filters, limits, convergence spaces, etc.)
54A25 Cardinality properties (cardinal functions and inequalities, discrete subsets) [See also 03Exx] {For ultrafilters, see 54D80}
54A35 Consistency and independence results [See also 03E35]
54A40 Fuzzy topology [See also 03E72]
54A99 None of the above, but in this section
54Bxx Basic constructions
54B05 Subspaces
54B10 Product spaces
54B15 Quotient spaces, decompositions
54B17 Adjunction spaces and similar constructions
54B20 Hyperspaces
54B30 Categorical methods [See also 18B30]
54B35 Spectra
54B40 Presheaves and sheaves [See also 18F20]
54B99 None of the above, but in this section
54Cxx Maps and general types of spaces defined by maps
54C05 Continuous maps
54C08 Weak and generalized continuity
54C10 Special maps on topological spaces (open, closed, perfect, etc.)
54C15 Retraction
54C20 Extension of maps
54C25 Embedding
54C30 Real-valued functions [See also 26–XX]
54C35 Function spaces [See also 46Exx, 58D15]
54C40 Algebraic properties of function spaces [See also 46J10]
54C45 C- and C^*-embedding
54C50 Special sets defined by functions [See also 26A21]
54C55 Absolute neighborhood extensor, absolute extensor, absolute neighborhood retract (ANR), absolute retract spaces (general properties) [See also 55M15]
54C56 Shape theory [See also 55P55, 57N25]
54C60 Set-valued maps [See also 26E25, 28B20, 47H04, 58C06]
54C65 Selections [See also 28B20]
54C70 Entropy
54C99 None of the above, but in this section
54Dxx Fairly general properties
54D05 Connected and locally connected spaces (general aspects)
54D10 Lower separation axioms (T_0–T_3, etc.)
54D15 Higher separation axioms (completely regular, normal, perfectly or collectionwise normal, etc.)
54D20 Noncompact covering properties (paracompact, Lindelöf, etc.)
54D25 "P-minimal" and "P-closed" spaces
54D30 Compactness
54D35 Extensions of spaces (compactifications, supercompactifications, completions, etc.)
54D40 Remainders
54D45 Local compactness, σ-compactness
54D50 k-spaces
54D55 Sequential spaces
54D60 Realcompactness and realcompactification
54D65 Separability
54D70 Base properties
54D80 Special constructions of spaces (spaces of ultrafilters, etc.)
54D99 None of the above, but in this section
54Exx Spaces with richer structures
54E05 Proximity structures and generalizations
54E15 Uniform structures and generalizations
54E17 Nearness spaces
54E18 p-spaces, M-spaces, σ-spaces, etc.
54E20 Stratifiable spaces, cosmic spaces, etc.
54E25 Semimetric spaces
54E30 Moore spaces
54E35 Metric spaces, metrizability
54E40 Special maps on metric spaces
54E45 Compact (locally compact) metric spaces
54E50 Complete metric spaces
54E52 Baire category, Baire spaces
54E55 Bitopologies
54E70 Probabilistic metric spaces
54E99 None of the above, but in this section
54Fxx Special properties
54F05 Linearly ordered topological spaces, generalized ordered spaces, and partially ordered spaces [See also 06B30, 06F30]
54F15 Continua and generalizations
54F35 Higher-dimensional local connectedness [See also 55Mxx, 55Nxx]
54F45 Dimension theory [See also 55M10]
54F50 Spaces of dimension ≤ 1; curves, dendrites [See also 26A03]
54F55 Unicoherence, multicoherence
54F65 Topological characterizations of particular spaces
54F99 None of the above, but in this section
54Gxx Peculiar spaces
54G05 Extremally disconnected spaces, F-spaces, etc.
54G10 P-spaces
54G12 Scattered spaces
54G15 Pathological spaces
54G20 Counterexamples
54G99 None of the above, but in this section
54Hxx Connections with other structures, applications
54H05 Descriptive set theory (topological aspects of Borel, analytic, projective, etc. sets) [See also 03E15, 26A21, 28A05]
54H10 Topological representations of algebraic systems [See also 22–XX]
54H11 Topological groups [See also 22A05]
54H12 Topological lattices, etc. [See also 06B30, 06F30]
54H13 Topological fields, rings, etc. [See also 12Jxx] {For algebraic aspects, see 13Jxx, 16W80}
54H15 Transformation groups and semigroups [See also 20M20, 22–XX, 57Sxx]
54H20 Topological dynamics [See also 28Dxx, 37Bxx]
54H25 Fixed-point and coincidence theorems [See also 47H10, 55M20]
54H99 None of the above, but in this section
54J05 Nonstandard topology [See also 03H05]

55–XX ALGEBRAIC TOPOLOGY
55–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
55–01 Instructional exposition (textbooks, tutorial papers, etc.)
55–02 Research exposition (monographs, survey articles)
55–03 Historical (must also be assigned at least one classification number from Section 01)
55–04 Explicit machine computation and programs (not the theory of computation or programming)
55–06 Proceedings, conferences, collections, etc.
55Mxx Classical topics {For the topology of Euclidean spaces and manifolds, see 57Nxx}
55M05 Duality
55M10 Dimension theory [See also 54F45]
55M15 Absolute neighborhood retracts [See also 54C55]
55M20 Fixed points and coincidences [See also 54H25]

55M25 Degree, winding number
55M30 Ljusternik-Schnirelman (Lyusternik-Shnirel′man) category of a space
55M35 Finite groups of transformations (including Smith theory) [See also 57S17]
55M99 None of the above, but in this section
55Nxx Homology and cohomology theories [See also 57Txx]
55N05 Čech types
55N07 Steenrod-Sitnikov homologies
55N10 Singular theory
55N15 K-theory [See also 19Lxx] {For algebraic K-theory, see 18F25, 19–XX}
55N20 Generalized (extraordinary) homology and cohomology theories
55N22 Bordism and cobordism theories, formal group laws [See also 14L05, 19L41, 57R75, 57R77, 57R85, 57R90]
55N25 Homology with local coefficients, equivariant cohomology
55N30 Sheaf cohomology [See also 18F20, 32C35, 32L10]
55N33 Intersection homology and cohomology
55N34 Elliptic cohomology
55N35 Other homology theories
55N40 Axioms for homology theory and uniqueness theorems
55N45 Products and intersections
55N91 Equivariant homology and cohomology [See also 19L47]
55N99 None of the above, but in this section
55Pxx Homotopy theory {For simple homotopy type, see 57Q10}
55P05 Homotopy extension properties, cofibrations
55P10 Homotopy equivalences
55P15 Classification of homotopy type
55P20 Eilenberg-Mac Lane spaces
55P25 Spanier-Whitehead duality
55P30 Eckmann-Hilton duality
55P35 Loop spaces
55P40 Suspensions
55P42 Stable homotopy theory, spectra
55P43 Spectra with additional structure (E_∞, A_∞, ring spectra, etc.)
55P45 H-spaces and duals
55P47 Infinite loop spaces
55P48 Loop space machines, operads [See also 18D50]
55P55 Shape theory [See also 54C56, 55Q07]
55P57 Proper homotopy theory
55P60 Localization and completion
55P62 Rational homotopy theory
55P65 Homotopy functors
55P91 Equivariant homotopy theory [See also 19L47]
55P92 Relations between equivariant and nonequivariant homotopy theory
55P99 None of the above, but in this section
55Qxx Homotopy groups
55Q05 Homotopy groups, general; sets of homotopy classes
55Q07 Shape groups
55Q10 Stable homotopy groups
55Q15 Whitehead products and generalizations
55Q20 Homotopy groups of wedges, joins, and simple spaces
55Q25 Hopf invariants
55Q35 Operations in homotopy groups
55Q40 Homotopy groups of spheres
55Q45 Stable homotopy of spheres
55Q50 J-morphism [See also 19L20]
55Q51 v_n-periodicity
55Q52 Homotopy groups of special spaces
55Q55 Cohomotopy groups
55Q70 Homotopy groups of special types [See also 55N05, 55N07]
55Q91 Equivariant homotopy groups [See also 19L47]
55Q99 None of the above, but in this section
55Rxx Fiber spaces and bundles [See also 18F15, 32Lxx, 46M20, 57R20, 57R22, 57R25]
55R05 Fiber spaces
55R10 Fiber bundles
55R12 Transfer
55R15 Classification
55R20 Spectral sequences and homology of fiber spaces [See also 55Txx]
55R25 Sphere bundles and vector bundles
55R35 Classifying spaces of groups and H-spaces
55R37 Maps between classifying spaces
55R40 Homology of classifying spaces, characteristic classes [See also 57Txx, 57R20]
55R45 Homology and homotopy of BO and BU; Bott periodicity
55R50 Stable classes of vector space bundles, K-theory [See also 19Lxx] {For algebraic K-theory, see 18F25, 19–XX}
55R55 Fiberings with singularities
55R60 Microbundles and block bundles [See also 57N55, 57Q50]
55R65 Generalizations of fiber spaces and bundles
55R70 Fibrewise topology
55R80 Discriminantal varieties, configuration spaces
55R91 Equivariant fiber spaces and bundles [See also 19L47]
55R99 None of the above, but in this section
55Sxx Operations and obstructions
55S05 Primary cohomology operations
55S10 Steenrod algebra
55S12 Dyer-Lashof operations
55S15 Symmetric products, cyclic products
55S20 Secondary and higher cohomology operations
55S25 K-theory operations and generalized cohomology operations [See also 19D55, 19Lxx]
55S30 Massey products
55S35 Obstruction theory
55S36 Extension and compression of mappings
55S37 Classification of mappings
55S40 Sectioning fiber spaces and bundles
55S45 Postnikov systems, k-invariants
55S91 Equivariant operations and obstructions [See also 19L47]
55S99 None of the above, but in this section
55Txx Spectral sequences [See also 18G40, 55R20]
55T05 General
55T10 Serre spectral sequences
55T15 Adams spectral sequences
55T20 Eilenberg-Moore spectral sequences [See also 57T35]
55T25 Generalized cohomology
55T99 None of the above, but in this section
55Uxx Applied homological algebra and category theory [See also 18Gxx]
55U05 Abstract complexes
55U10 Simplicial sets and complexes
55U15 Chain complexes
55U20 Universal coefficient theorems, Bockstein operator
55U25 Homology of a product, Künneth formula
55U30 Duality
55U35 Abstract and axiomatic homotopy theory
55U40 Topological categories, foundations of homotopy theory
55U99 None of the above, but in this section

57–XX MANIFOLDS AND CELL COMPLEXES {For complex manifolds, see 32Qxx}
57–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
57–01 Instructional exposition (textbooks, tutorial papers, etc.)
57–02 Research exposition (monographs, survey articles)
57–03 Historical (must also be assigned at least one classification number from Section 01)
57–04 Explicit machine computation and programs (not the theory of computation or programming)
57–06 Proceedings, conferences, collections, etc.
57Mxx Low-dimensional topology
57M05 Fundamental group, presentations, free differential calculus
57M07 Topological methods in group theory
57M10 Covering spaces
57M12 Special coverings, e.g. branched
57M15 Relations with graph theory [See also 05Cxx]
57M20 Two-dimensional complexes
57M25 Knots and links in S^3 {For higher dimensions, see 57Q45}
57M27 Invariants of knots and 3-manifolds
57M30 Wild knots and surfaces, etc., wild embeddings
57M35 Dehn's lemma, sphere theorem, loop theorem, asphericity
57M40 Characterizations of E^3 and S^3 (Poincaré conjecture) [See also 57N12]
57M50 Geometric structures on low-dimensional manifolds
57M60 Group actions in low dimensions
57M99 None of the above, but in this section
57Nxx Topological manifolds
57N05 Topology of E^2, 2-manifolds
57N10 Topology of general 3-manifolds [See also 57Mxx]
57N12 Topology of E^3 and S^3 [See also 57M40]
57N13 Topology of E^4, 4-manifolds [See also 14Jxx, 32Jxx]
57N15 Topology of E^n, n-manifolds ($4 < n < \infty$)
57N16 Geometric structures on manifolds [See also 57M50]
57N17 Topology of topological vector spaces
57N20 Topology of infinite-dimensional manifolds [See also 58Bxx]
57N25 Shapes [See also 54C56, 55P55, 55Q07]
57N30 Engulfing
57N35 Embeddings and immersions
57N37 Isotopy and pseudo-isotopy
57N40 Neighborhoods of submanifolds
57N45 Flatness and tameness
57N50 $S^{n-1} \subset E^n$, Schoenflies problem
57N55 Microbundles and block bundles [See also 55R60, 57Q50]
57N60 Cellularity
57N65 Algebraic topology of manifolds
57N70 Cobordism and concordance

57N75 General position and transversality
57N80 Stratifications
57N99 None of the above, but in this section
57Pxx Generalized manifolds [See also 18F15]
57P05 Local properties of generalized manifolds
57P10 Poincaré duality spaces
57P99 None of the above, but in this section
57Qxx PL-topology
57Q05 General topology of complexes
57Q10 Simple homotopy type, Whitehead torsion, Reidemeister-Franz torsion, etc. [See also 19B28]
57Q12 Wall finiteness obstruction for CW-complexes
57Q15 Triangulating manifolds
57Q20 Cobordism
57Q25 Comparison of PL-structures: classification, Hauptvermutung
57Q30 Engulfing
57Q35 Embeddings and immersions
57Q37 Isotopy
57Q40 Regular neighborhoods
57Q45 Knots and links (in high dimensions) {For the low-dimensional case, see 57M25}
57Q50 Microbundles and block bundles [See also 55R60, 57N55]
57Q55 Approximations
57Q60 Cobordism and concordance
57Q65 General position and transversality
57Q91 Equivariant PL-topology
57Q99 None of the above, but in this section
57Rxx Differential topology {For foundational questions of differentiable manifolds, see 58Axx; for infinite-dimensional manifolds, see 58Bxx}
57R05 Triangulating
57R10 Smoothing
57R12 Smooth approximations
57R15 Specialized structures on manifolds (spin manifolds, framed manifolds, etc.)
57R17 Symplectic and contact topology
57R19 Algebraic topology on manifolds
57R20 Characteristic classes and numbers
57R22 Topology of vector bundles and fiber bundles [See also 55Rxx]
57R25 Vector fields, frame fields
57R27 Controllability of vector fields on C^∞ and real-analytic manifolds [See also 49Qxx, 37C10, 93B05]
57R30 Foliations; geometric theory
57R32 Classifying spaces for foliations; Gel′fand-Fuks cohomology [See also 58H10]
57R35 Differentiable mappings
57R40 Embeddings
57R42 Immersions
57R45 Singularities of differentiable mappings
57R50 Diffeomorphisms
57R52 Isotopy
57R55 Differentiable structures
57R56 Topological quantum field theories
57R57 Applications of global analysis to structures on manifolds, Donaldson and Seiberg-Witten invariants [See also 58–XX]
57R58 Floer homology
57R60 Homotopy spheres, Poincaré conjecture
57R65 Surgery and handlebodies
57R67 Surgery obstructions, Wall groups [See also 19J25]
57R70 Critical points and critical submanifolds
57R75 O- and SO-cobordism
57R77 Complex cobordism (U- and SU-cobordism) [See also 55N22]
57R80 *h*- and *s*-cobordism
57R85 Equivariant cobordism
57R90 Other types of cobordism [See also 55N22]
57R91 Equivariant algebraic topology of manifolds
57R95 Realizing cycles by submanifolds
57R99 None of the above, but in this section
57Sxx Topological transformation groups [See also 20F34, 22–XX, 37–XX, 54H15, 58D05]
57S05 Topological properties of groups of homeomorphisms or diffeomorphisms
57S10 Compact groups of homeomorphisms
57S15 Compact Lie groups of differentiable transformations
57S17 Finite transformation groups
57S20 Noncompact Lie groups of transformations
57S25 Groups acting on specific manifolds
57S30 Discontinuous groups of transformations
57S99 None of the above, but in this section
57Txx Homology and homotopy of topological groups and related structures
57T05 Hopf algebras [See also 16W30]
57T10 Homology and cohomology of Lie groups
57T15 Homology and cohomology of homogeneous spaces of Lie groups
57T20 Homotopy groups of topological groups and homogeneous spaces
57T25 Homology and cohomology of *H*-spaces
57T30 Bar and cobar constructions [See also 18G55, 55Uxx]
57T35 Applications of Eilenberg-Moore spectral sequences [See also 55R20, 55T20]
57T99 None of the above, but in this section
58–XX GLOBAL ANALYSIS, ANALYSIS ON MANIFOLDS {For geometric integration theory, see 49Q15}
58–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
58–01 Instructional exposition (textbooks, tutorial papers, etc.)
58–02 Research exposition (monographs, survey articles)
58–03 Historical (must also be assigned at least one classification number from Section 01)
58–04 Explicit machine computation and programs (not the theory of computation or programming)
58–06 Proceedings, conferences, collections, etc.
58Axx General theory of differentiable manifolds [See also 32Cxx]
58A03 Topos-theoretic approach to differentiable manifolds
58A05 Differentiable manifolds, foundations
58A07 Real-analytic and Nash manifolds [See also 14P20, 32C07]
58A10 Differential forms
58A12 de Rham theory [See also 14Fxx]
58A14 Hodge theory [See also 14C30, 14Fxx, 32J25, 32S35]
58A15 Exterior differential systems (Cartan theory)
58A17 Pfaffian systems
58A20 Jets
58A25 Currents [See also 32C30, 53C65]
58A30 Vector distributions (subbundles of the tangent bundles)
58A32 Natural bundles
58A35 Stratified sets [See also 32S60]
58A40 Differential spaces
58A50 Supermanifolds and graded manifolds [See also 14A22, 32C11]
58A99 None of the above, but in this section
58Bxx Infinite-dimensional manifolds
58B05 Homotopy and topological questions
58B10 Differentiability questions
58B12 Questions of holomorphy [See also 32–XX, 46G20]
58B15 Fredholm structures [See also 47A53]
58B20 Riemannian, Finsler and other geometric structures [See also 53C20, 53C60]
58B25 Group structures and generalizations on infinite-dimensional manifolds [See also 22E65, 58D05]
58B32 Geometry of quantum groups
58B34 Noncommutative geometry (à la Connes)
58B99 None of the above, but in this section
58Cxx Calculus on manifolds; nonlinear operators [See also 46Txx, 47Hxx, 47Jxx]
58C05 Real-valued functions
58C06 Set valued and function-space valued mappings [See also 47H04, 54C60]
58C07 Continuity properties of mappings
58C10 Holomorphic maps [See also 32–XX]
58C15 Implicit function theorems; global Newton methods
58C20 Differentiation theory (Gateaux, Fréchet, etc.) [See also 26Exx, 46G05]
58C25 Differentiable maps
58C30 Fixed point theorems on manifolds [See also 47H10]
58C35 Integration on manifolds; measures on manifolds [See also 28Cxx]
58C40 Spectral theory; eigenvalue problems [See also 47J10, 58E07]
58C50 Analysis on supermanifolds or graded manifolds
58C99 None of the above, but in this section
58Dxx Spaces and manifolds of mappings (including nonlinear versions of 46Exx) [See also 46Txx, 53Cxx]
58D05 Groups of diffeomorphisms and homeomorphisms as manifolds [See also 22E65, 57S05]
58D07 Groups and semigroups of nonlinear operators [See also 17B65, 47H20]
58D10 Spaces of imbeddings and immersions
58D15 Manifolds of mappings [See also 46T10, 54C35]
58D17 Manifolds of metrics (esp. Riemannian)
58D19 Group actions and symmetry properties
58D20 Measures (Gaussian, cylindrical, etc.) on manifolds of maps [See also 28Cxx, 46T12]
58D25 Equations in function spaces; evolution equations [See also 34Gxx, 35K90, 35L90, 35R15, 37Lxx, 47Jxx]
58D27 Moduli problems for differential geometric structures
58D29 Moduli problems for topological structures

58D30 Applications (in quantum mechanics (Feynman path integrals), relativity, fluid dynamics, etc.)
58D99 None of the above, but in this section
58Exx Variational problems in infinite-dimensional spaces
58E05 Abstract critical point theory (Morse theory, Ljusternik-Schnirelman (Lyusternik-Shnirel'man) theory, etc.)
58E07 Abstract bifurcation theory
58E09 Group-invariant bifurcation theory
58E10 Applications to the theory of geodesics (problems in one independent variable)
58E11 Critical metrics
58E12 Applications to minimal surfaces (problems in two independent variables) [See also 49Q05]
58E15 Application to extremal problems in several variables; Yang-Mills functionals [See also 81T13], etc.
58E17 Pareto optimality, etc., applications to economics [See also 90C29]
58E20 Harmonic maps [See also 53C43], etc.
58E25 Applications to control theory [See also 49–XX, 93–XX]
58E30 Variational principles
58E35 Variational inequalities (global problems)
58E40 Group actions
58E50 Applications
58E99 None of the above, but in this section
58Hxx Pseudogroups, differentiable groupoids and general structures on manifolds
58H05 Pseudogroups and differentiable groupoids [See also 22A22, 22E65]
58H10 Cohomology of classifying spaces for pseudogroup structures (Spencer, Gel'fand-Fuks, etc.) [See also 57R32]
58H15 Deformations of structures [See also 32Gxx, 58J10]
58H99 None of the above, but in this section
58Jxx Partial differential equations on manifolds; differential operators [See also 32Wxx, 35–XX, 53Cxx]
58J05 Elliptic equations on manifolds, general theory [See also 35–XX]
58J10 Differential complexes [See also 35Nxx]; elliptic complexes
58J15 Relations with hyperfunctions
58J20 Index theory and related fixed point theorems [See also 19K56, 46L80]
58J22 Exotic index theories [See also 19K56, 46L05, 46L10, 46L80, 46M20]
58J26 Elliptic genera
58J28 Eta-invariants, Chern-Simons invariants
58J30 Spectral flows
58J32 Boundary value problems on manifolds
58J35 Heat and other parabolic equation methods
58J37 Perturbations; asymptotics
58J40 Pseudodifferential and Fourier integral operators on manifolds [See also 35Sxx]
58J42 Noncommutative global analysis, noncommutative residues
58J45 Hyperbolic equations [See also 35Lxx]
58J47 Propagation of singularities; initial value problems
58J50 Spectral problems; spectral geometry; scattering theory [See also 35Pxx]
58J52 Determinants and determinant bundles, analytic torsion
58J53 Isospectrality
58J55 Bifurcation [See also 35B32]
58J60 Relations with special manifold structures (Riemannian, Finsler, etc.)
58J65 Diffusion processes and stochastic analysis on manifolds [See also 35R60, 60H10, 60J60]
58J70 Invariance and symmetry properties [See also 35A30]
58J72 Correspondences and other transformation methods (e.g. Lie-Bäcklund) [See also 35A22]
58J90 Applications
58J99 None of the above, but in this section
58Kxx Theory of singularities and catastrophe theory [See also 32Sxx, 37–XX]
58K05 Critical points of functions and mappings
58K10 Monodromy
58K15 Topological properties of mappings
58K20 Algebraic and analytic properties of mappings
58K25 Stability
58K30 Global theory
58K35 Catastrophe theory
58K40 Classification; finite determinacy of map germs
58K45 Singularities of vector fields, topological aspects
58K50 Normal forms
58K55 Asymptotic behavior
58K60 Deformation of singularities
58K65 Topological invariants
58K70 Symmetries, equivariance
58K99 None of the above, but in this section
58Z05 Applications to physics

60–XX PROBABILITY THEORY AND STOCHASTIC PROCESSES {For additional applications, see 11Kxx, 62–XX, 90–XX, 91–XX, 92–XX, 93–XX, 94–XX}
60–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
60–01 Instructional exposition (textbooks, tutorial papers, etc.)
60–02 Research exposition (monographs, survey articles)
60–03 Historical (must also be assigned at least one classification number from Section 01)
60–04 Explicit machine computation and programs (not the theory of computation or programming)
60–06 Proceedings, conferences, collections, etc.
60–08 Computational methods (not classified at a more specific level) [See also 65C50]
60Axxx Foundations of probability theory
60A05 Axioms; other general questions
60A10 Probabilistic measure theory {For ergodic theory, see 28Dxx and 60Fxx}
60A99 None of the above, but in this section
60Bxx Probability theory on algebraic and topological structures
60B05 Probability measures on topological spaces
60B10 Convergence of probability measures
60B11 Probability theory on linear topological spaces [See also 28C20]
60B12 Limit theorems for vector-valued random variables (infinite-dimensional case)
60B15 Probability measures on groups, Fourier transforms, factorization
60B99 None of the above, but in this section
60C05 Combinatorial probability
60D05 Geometric probability, stochastic geometry, random sets [See also 52A22, 53C65]
60Exx Distribution theory [See also 62Exx, 62Hxx]
60E05 Distributions: general theory
60E07 Infinitely divisible distributions; stable distributions
60E10 Characteristic functions; other transforms
60E15 Inequalities; stochastic orderings
60E99 None of the above, but in this section
60Fxx Limit theorems [See also 28Dxx, 60B12]
60F05 Central limit and other weak theorems
60F10 Large deviations
60F15 Strong theorems
60F17 Functional limit theorems; invariance principles
60F20 Zero-one laws
60F25 L^p-limit theorems
60F99 None of the above, but in this section
60Gxx Stochastic processes
60G05 Foundations of stochastic processes
60G07 General theory of processes
60G09 Exchangeability
60G10 Stationary processes
60G12 General second-order processes
60G15 Gaussian processes
60G17 Sample path properties
60G18 Self-similar processes
60G20 Generalized stochastic processes
60G25 Prediction theory [See also 62M20]
60G30 Continuity and singularity of induced measures
60G35 Applications (signal detection, filtering, etc.) [See also 62M20, 93E10, 93E11, 94Axx]
60G40 Stopping times; optimal stopping problems; gambling theory [See also 62L15, 91A60]
60G42 Martingales with discrete parameter
60G44 Martingales with continuous parameter
60G46 Martingales and classical analysis
60G48 Generalizations of martingales
60G50 Sums of independent random variables; random walks
60G51 Processes with independent increments
60G52 Stable processes
60G55 Point processes
60G57 Random measures
60G60 Random fields
60G70 Extreme value theory; extremal processes
60G99 None of the above, but in this section
60Hxx Stochastic analysis [See also 58J65]
60H05 Stochastic integrals
60H07 Stochastic calculus of variations and the Malliavin calculus
60H10 Stochastic ordinary differential equations [See also 34F05]
60H15 Stochastic partial differential equations [See also 35R60]
60H20 Stochastic integral equations
60H25 Random operators and equations [See also 47B80]
60H30 Applications of stochastic analysis (to PDE, etc.)
60H35 Computational methods for stochastic equations [See also 65C30]
60H40 White noise theory
60H99 None of the above, but in this section

60Jxx **Markov processes**
60J05 Markov processes with discrete parameter
60J10 Markov chains with discrete parameter
60J20 Applications of discrete Markov processes (social mobility, learning theory, industrial processes, etc.) [See also 90B30, 91D10, 91D35, 91E40]
60J22 Computational methods in Markov chains [See also 65C40]
60J25 Markov processes with continuous parameter
60J27 Markov chains with continuous parameter
60J35 Transition functions, generators and resolvents [See also 47D03, 47D07]
60J40 Right processes
60J45 Probabilistic potential theory [See also 31Cxx, 31D05]
60J50 Boundary theory
60J55 Local time and additive functionals
60J57 Multiplicative functionals
60J60 Diffusion processes [See also 58J65]
60J65 Brownian motion [See also 58J65]
60J70 Applications of diffusion theory (population genetics, absorption problems, etc.) [See also 92Dxx]
60J75 Jump processes
60J80 Branching processes (Galton-Watson, birth-and-death, etc.)
60J85 Applications of branching processes [See also 92Dxx]
60J99 None of the above, but in this section
60Kxx **Special processes**
60K05 Renewal theory
60K10 Applications (reliability, demand theory, etc.)
60K15 Markov renewal processes, semi-Markov processes
60K20 Applications of Markov renewal processes (reliability, queueing networks, etc.) [See also 90Bxx]
60K25 Queueing theory [See also 68M20, 90B22]
60K30 Applications (congestion, allocation, storage, traffic, etc.) [See also 90Bxx]
60K35 Interacting random processes; statistical mechanics type models; percolation theory [See also 82B43, 82C43]
60K37 Processes in random environments
60K40 Other physical applications of random processes
60K99 None of the above, but in this section

62–XX **STATISTICS**
62–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
62–01 Instructional exposition (textbooks, tutorial papers, etc.)
62–02 Research exposition (monographs, survey articles)
62–03 Historical (must also be assigned at least one classification number from Section 01)
62–04 Explicit machine computation and programs (not the theory of computation or programming)
62–06 Proceedings, conferences, collections, etc.
62–07 Data analysis
62–09 Graphical methods
62A01 **Foundational and philosophical topics**
62Bxx **Sufficiency and information**
62B05 Sufficient statistics and fields
62B10 Information-theoretic topics [See also 94A17]
62B15 Theory of statistical experiments
62B99 None of the above, but in this section
62Cxx **Decision theory [See also 90B50, 91B06; for game theory, see 91A35]**
62C05 General considerations
62C07 Complete class results
62C10 Bayesian problems; characterization of Bayes procedures
62C12 Empirical decision procedures; empirical Bayes procedures
62C15 Admissibility
62C20 Minimax procedures
62C25 Compound decision problems
62C99 None of the above, but in this section
62D05 **Sampling theory, sample surveys**
62Exx **Distribution theory [See also 60Exx]**
62E10 Characterization and structure theory
62E15 Exact distribution theory
62E17 Approximations to distributions (nonasymptotic)
62E20 Asymptotic distribution theory
62E99 None of the above, but in this section
62Fxx **Parametric inference**
62F03 Hypothesis testing
62F05 Asymptotic properties of tests
62F07 Ranking and selection
62F10 Point estimation
62F12 Asymptotic properties of estimators
62F15 Bayesian inference
62F25 Tolerance and confidence regions
62F30 Inference under constraints
62F35 Robustness and adaptive procedures
62F40 Bootstrap, jackknife and other resampling methods
62F99 None of the above, but in this section
62Gxx **Nonparametric inference**
62G05 Estimation
62G07 Density estimation
62G08 Nonparametric regression
62G09 Resampling methods
62G10 Hypothesis testing
62G15 Tolerance and confidence regions
62G20 Asymptotic properties
62G30 Order statistics; empirical distribution functions
62G32 Statistics of extreme values; tail inference
62G35 Robustness
62G99 None of the above, but in this section
62Hxx **Multivariate analysis [See also 60Exx]**
62H05 Characterization and structure theory
62H10 Distribution of statistics
62H11 Directional data; spatial statistics
62H12 Estimation
62H15 Hypothesis testing
62H17 Contingency tables
62H20 Measures of association (correlation, canonical correlation, etc.)
62H25 Factor analysis and principal components; correspondence analysis
62H30 Classification and discrimination; cluster analysis [See also 68T10]
62H35 Image analysis
62H99 None of the above, but in this section
62Jxx **Linear inference, regression**
62J02 General nonlinear regression
62J05 Linear regression
62J07 Ridge regression; shrinkage estimators
62J10 Analysis of variance and covariance
62J12 Generalized linear models
62J15 Paired and multiple comparisons
62J20 Diagnostics
62J99 None of the above, but in this section
62Kxx **Design of experiments [See also 05Bxx]**
62K05 Optimal designs
62K10 Block designs
62K15 Factorial designs
62K20 Response surface designs
62K25 Robust parameter designs
62K99 None of the above, but in this section
62Lxx **Sequential methods**
62L05 Sequential design
62L10 Sequential analysis
62L12 Sequential estimation
62L15 Optimal stopping [See also 60G40, 91A60]
62L20 Stochastic approximation
62L99 None of the above, but in this section
62Mxx **Inference from stochastic processes**
62M02 Markov processes: hypothesis testing
62M05 Markov processes: estimation
62M07 Non-Markovian processes: hypothesis testing
62M09 Non-Markovian processes: estimation
62M10 Time series, auto-correlation, regression, etc. [See also 91B84]
62M15 Spectral analysis
62M20 Prediction [See also 60G25]; filtering [See also 60G35, 93E10, 93E11]
62M30 Spatial processes
62M40 Random fields; image analysis
62M45 Neural nets and related approaches
62M99 None of the above, but in this section
62Nxx **Survival analysis and censored data**
62N01 Censored data models
62N02 Estimation
62N03 Testing
62N05 Reliability and life testing [See also 90B25]
62N99 None of the above, but in this section
62Pxx **Applications [See also 90–XX, 91–XX, 92–XX]**
62P05 Applications to actuarial sciences and financial mathematics
62P10 Applications to biology and medical sciences
62P12 Applications to environmental and related topics
62P15 Applications to psychology
62P20 Applications to economics [See also 91Bxx]
62P25 Applications to social sciences
62P30 Applications in engineering and industry
62P35 Applications to physics
62P99 None of the above, but in this section
62Q05 **Statistical tables**

65–XX NUMERICAL ANALYSIS
65–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
65–01 Instructional exposition (textbooks, tutorial papers, etc.)
65–02 Research exposition (monographs, survey articles)
65–03 Historical (must also be assigned at least one classification number from Section 01)
65–04 Explicit machine computation and programs (not the theory of computation or programming)
65–05 Experimental papers
65–06 Proceedings, conferences, collections, etc.
65A05 Tables
65Bxx Acceleration of convergence
65B05 Extrapolation to the limit, deferred corrections
65B10 Summation of series
65B15 Euler-Maclaurin formula
65B99 None of the above, but in this section
65Cxx Probabilistic methods, simulation and stochastic differential equations {For theoretical aspects, see 68U20 and 60H35}
65C05 Monte Carlo methods
65C10 Random number generation
65C20 Models, numerical methods [See also 68U20]
65C30 Stochastic differential and integral equations
65C35 Stochastic particle methods [See also 82C80]
65C40 Computational Markov chains
65C50 Other computational problems in probability
65C60 Computational problems in statistics
65C99 None of the above, but in this section
65Dxx Numerical approximation and computational geometry (primarily algorithms) {For theory, see 41–XX and 68Uxx}
65D05 Interpolation
65D07 Splines
65D10 Smoothing, curve fitting
65D15 Algorithms for functional approximation
65D17 Computer aided design (modeling of curves and surfaces) [See also 68U07]
65D18 Computer graphics and computational geometry [See also 51N05, 68U05]
65D20 Computation of special functions, construction of tables [See also 33F05]
65D25 Numerical differentiation
65D30 Numerical integration
65D32 Quadrature and cubature formulas
65D99 None of the above, but in this section
65E05 Numerical methods in complex analysis (potential theory, etc.) {For numerical methods in conformal mapping, see 30C30}
65Fxx Numerical linear algebra
65F05 Direct methods for linear systems and matrix inversion
65F10 Iterative methods for linear systems [See also 65N22]
65F15 Eigenvalues, eigenvectors
65F18 Inverse eigenvalue problems
65F20 Overdetermined systems, pseudoinverses
65F22 Ill-posedness, regularization
65F25 Orthogonalization
65F30 Other matrix algorithms
65F35 Matrix norms, conditioning, scaling [See also 15A12, 15A60]
65F40 Determinants
65F50 Sparse matrices
65F99 None of the above, but in this section
65Gxx Error analysis and interval analysis
65G20 Algorithms with automatic result verification
65G30 Interval and finite arithmetic
65G40 General methods in interval analysis
65G50 Roundoff error
65G99 None of the above, but in this section
65Hxx Nonlinear algebraic or transcendental equations
65H05 Single equations
65H10 Systems of equations
65H17 Eigenvalues, eigenvectors [See also 47Hxx, 47Jxx, 58C40, 58E07, 90C30]
65H20 Global methods, including homotopy approaches [See also 58C30, 90C30]
65H99 None of the above, but in this section
65Jxx Numerical analysis in abstract spaces
65J05 General theory
65J10 Equations with linear operators (do not use 65Fxx)
65J15 Equations with nonlinear operators (do not use 65Hxx)
65J20 Improperly posed problems; regularization
65J22 Inverse problems
65J99 None of the above, but in this section
65Kxx Mathematical programming, optimization and variational techniques
65K05 Mathematical programming algorithms {For theory see 90Cxx}
65K10 Optimization and variational techniques [See also 49Mxx, 93B40]
65K99 None of the above, but in this section
65Lxx Ordinary differential equations
65L05 Initial value problems
65L06 Multistep, Runge-Kutta and extrapolation methods
65L07 Numerical investigation of stability of solutions
65L08 Improperly posed problems
65L09 Inverse problems
65L10 Boundary value problems
65L12 Finite difference methods
65L15 Eigenvalue problems
65L20 Stability and convergence of numerical methods
65L50 Mesh generation and refinement
65L60 Finite elements, Rayleigh-Ritz, Galerkin and collocation methods
65L70 Error bounds
65L80 Methods for differential-algebraic equations
65L99 None of the above, but in this section
65Mxx Partial differential equations, initial value and time-dependent initial-boundary value problems
65M06 Finite difference methods
65M12 Stability and convergence of numerical methods
65M15 Error bounds
65M20 Method of lines
65M25 Method of characteristics
65M30 Improperly posed problems
65M32 Inverse problems
65M50 Mesh generation and refinement
65M55 Multigrid methods; domain decomposition
65M60 Finite elements, Rayleigh-Ritz and Galerkin methods, finite methods
65M70 Spectral, collocation and related methods
65M99 None of the above, but in this section
65Nxx Partial differential equations, boundary value problems
65N06 Finite difference methods
65N12 Stability and convergence of numerical methods
65N15 Error bounds
65N21 Inverse problems
65N22 Solution of discretized equations [See also 65Fxx, 65Hxx]
65N25 Eigenvalue problems
65N30 Finite elements, Rayleigh-Ritz and Galerkin methods, finite methods
65N35 Spectral, collocation and related methods
65N38 Boundary element methods
65N40 Method of lines
65N45 Method of contraction of the boundary
65N50 Mesh generation and refinement
65N55 Multigrid methods; domain decomposition
65N99 None of the above, but in this section
65Pxx Numerical problems in dynamical systems [See also 37Mxx]
65P10 Hamiltonian systems including symplectic integrators
65P20 Numerical chaos
65P30 Bifurcation problems
65P40 Nonlinear stabilities
65P99 None of the above, but in this section
65Q05 Difference and functional equations, recurrence relations
65Rxx Integral equations, integral transforms
65R10 Integral transforms
65R20 Integral equations
65R30 Improperly posed problems
65R32 Inverse problems
65R99 None of the above, but in this section
65S05 Graphical methods
65Txx Numerical methods in Fourier analysis
65T40 Trigonometric approximation and interpolation
65T50 Discrete and fast Fourier transforms
65T60 Wavelets
65T99 None of the above, but in this section
65Yxx Computer aspects of numerical algorithms
65Y05 Parallel computation
65Y10 Algorithms for specific classes of architectures
65Y15 Packaged methods
65Y20 Complexity and performance of numerical algorithms [See also 68Q25]
65Y99 None of the above, but in this section
65Z05 Applications to physics

68–XX COMPUTER SCIENCE {For papers involving machine computations and programs in a specific mathematical area, see Section –04 in that area}
68–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
68–01 Instructional exposition (textbooks, tutorial papers, etc.)
68–02 Research exposition (monographs, survey articles)
68–03 Historical (must also be assigned at least one classification number from Section 01)
68–04 Explicit machine computation and programs (not the theory of computation or programming)
68–06 Proceedings, conferences, collections, etc.
68Mxx Computer system organization
68M01 General
68M07 Mathematical problems of computer architecture
68M10 Network design and communication [See also 68R10, 90B18]
68M12 Network protocols
68M14 Distributed systems
68M15 Reliability, testing and fault tolerance [See also 94C12]
68M20 Performance evaluation; queueing; scheduling [See also 60K25, 90Bxx]
68M99 None of the above, but in this section
68Nxx Software
68N01 General
68N15 Programming languages
68N17 Logic programming
68N18 Functional programming and lambda calculus [See also 03B40]
68N19 Other programming techniques (object-oriented, sequential, concurrent, automatic, etc.)
68N20 Compilers and interpreters
68N25 Operating systems
68N30 Mathematical aspects of software engineering (specification, verification, metrics, requirements, etc.)
68N99 None of the above, but in this section
68Pxx Theory of data
68P01 General
68P05 Data structures
68P10 Searching and sorting
68P15 Database theory
68P20 Information storage and retrieval
68P25 Data encryption [See also 94A60, 81P68]
68P30 Coding and information theory (compaction, compression, models of communication, encoding schemes, etc.) [See also 94Axx]
68P99 None of the above, but in this section
68Qxx Theory of computing
68Q01 General
68Q05 Models of computation (Turing machines, etc.) [See also 03D10, 81P68]
68Q10 Modes of computation (nondeterministic, parallel, interactive, probabilistic, etc.) [See also 68Q85]
68Q15 Complexity classes (hierarchies, relations among complexity classes, etc.) [See also 03D15, 68Q17, 68Q19]
68Q17 Computational difficulty of problems (lower bounds, completeness, difficulty of approximation, etc.) [See also 68Q15]
68Q19 Descriptive complexity and finite models [See also 03C13]
68Q25 Analysis of algorithms and problem complexity [See also 68W40]
68Q30 Algorithmic information theory (Kolmogorov complexity, etc.)
68Q32 Computational learning theory [See also 68T05]
68Q42 Grammars and rewriting systems
68Q45 Formal languages and automata [See also 03D05, 68Q70, 94A45]
68Q55 Semantics [See also 03B70, 06B35, 18C50]
68Q60 Specification and verification (program logics, model checking, etc.) [See also 03B70]
68Q65 Abstract data types; algebraic specification [See also 18C50]
68Q70 Algebraic theory of languages and automata [See also 18B20, 20M35]
68Q80 Cellular automata [See also 37B15]
68Q85 Models and methods for concurrent and distributed computing (process algebras, bisimulation, transition nets, etc.)
68Q99 None of the above, but in this section
68Rxx Discrete mathematics in relation to computer science
68R01 General
68R05 Combinatorics
68R10 Graph theory [See also 05Cxx, 90B10, 90B35, 90C35]
68R15 Combinatorics on words
68R99 None of the above, but in this section
68Txx Artificial intelligence
68T01 General
68T05 Learning and adaptive systems [See also 68Q32, 91E40]
68T10 Pattern recognition, speech recognition {For cluster analysis, see 62H30}
68T15 Theorem proving (deduction, resolution, etc.) [See also 03B35]
68T20 Problem solving (heuristics, search strategies, etc.)
68T27 Logic in artificial intelligence
68T30 Knowledge representation
68T35 Languages and software systems (knowledge-based systems, expert systems, etc.)
68T37 Reasoning under uncertainty
68T40 Robotics [See also 93C85]
68T45 Machine vision and scene understanding
68T50 Natural language processing [See also 03B65]
68T99 None of the above, but in this section
68Uxx Computing methodologies and applications
68U01 General
68U05 Computer graphics; computational geometry [See also 65D18]
68U07 Computer-aided design [See also 65D17]
68U10 Image processing
68U15 Text processing; mathematical typography
68U20 Simulation [See also 65Cxx]
68U35 Information systems (hypertext navigation, interfaces, decision support, etc.)
68U99 None of the above, but in this section
68Wxx Algorithms {For numerical algorithms, see 65–XX; for combinatorics and graph theory, see 68Rxx}
68W01 General
68W05 Nonnumerical algorithms
68W10 Parallel algorithms
68W15 Distributed algorithms
68W20 Randomized algorithms
68W25 Approximation algorithms
68W30 Symbolic computation and algebraic computation [See also 11Yxx, 12Y05, 13Pxx, 14Qxx, 16Z05, 17–08, 33F10]
68W35 VLSI algorithms
68W40 Analysis of algorithms [See also 68Q25]
68W99 None of the above, but in this section

70–XX MECHANICS OF PARTICLES AND SYSTEMS {For relativistic mechanics, see 83A05 and 83C10; for statistical mechanics, see 82–XX}
70–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
70–01 Instructional exposition (textbooks, tutorial papers, etc.)
70–02 Research exposition (monographs, survey articles)
70–03 Historical (must also be assigned at least one classification number from Section 01)
70–04 Explicit machine computation and programs (not the theory of computation or programming)
70–05 Experimental work
70–06 Proceedings, conferences, collections, etc.
70–08 Computational methods
70A05 Axiomatics, foundations
70Bxx Kinematics [See also 53A17]
70B05 Kinematics of a particle
70B10 Kinematics of a rigid body
70B15 Mechanisms, robots [See also 68T40, 70Q05, 93C85]
70B99 None of the above, but in this section
70C20 Statics
70Exx Dynamics of a rigid body and of multibody systems
70E05 Motion of the gyroscope
70E15 Free motion of a rigid body [See also 70M20]
70E17 Motion of a rigid body with a fixed point
70E18 Motion of a rigid body in contact with a solid surface [See also 70F25]
70E20 Perturbation methods for rigid body dynamics
70E40 Integrable cases of motion
70E45 Higher-dimensional generalizations
70E50 Stability problems
70E55 Dynamics of multibody systems
70E60 Robot dynamics and control [See also 68T40, 70Q05, 93C85]
70E99 None of the above, but in this section
70Fxx Dynamics of a system of particles, including celestial mechanics
70F05 Two-body problems
70F07 Three-body problems
70F10 n-body problems
70F15 Celestial mechanics
70F16 Collisions in celestial mechanics, regularization
70F17 Inverse problems
70F20 Holonomic systems
70F25 Nonholonomic systems
70F35 Collision of rigid or pseudo-rigid bodies
70F40 Problems with friction
70F45 Infinite particle systems
70F99 None of the above, but in this section
70Gxx General models, approaches, and methods [See also 37–XX]
70G10 Generalized coordinates; event, impulse-energy, configuration, state, or phase space
70G40 Topological and differential-topological methods
70G45 Differential-geometric methods (tensors, connections, symplectic, Poisson, contact, Riemannian, nonholonomic, etc.) [See also 53Cxx, 53Dxx, 58Axx]

70G55 Algebraic geometry methods
70G60 Dynamical systems methods
70G65 Symmetries, Lie-group and Lie-algebra methods
70G70 Functional-analytic methods
70G75 Variational methods
70G99 None of the above, but in this section
70Hxx Hamiltonian and Lagrangian mechanics [See also 37Jxx]
70H03 Lagrange's equations
70H05 Hamilton's equations
70H06 Completely integrable systems and methods of integration
70H07 Nonintegrable systems
70H08 Nearly integrable Hamiltonian systems, KAM theory
70H09 Perturbation theories
70H11 Adiabatic invariants
70H12 Periodic and almost periodic solutions
70H14 Stability problems
70H15 Canonical and symplectic transformations
70H20 Hamilton-Jacobi equations
70H25 Hamilton's principle
70H30 Other variational principles
70H33 Symmetries and conservation laws, reverse symmetries, invariant manifolds and their bifurcations, reduction
70H40 Relativistic dynamics
70H45 Constrained dynamics, Dirac's theory of constraints [See also 70F20, 70F25, 70Gxx]
70H50 Higher-order theories
70H99 None of the above, but in this section
70Jxx Linear vibration theory
70J10 Modal analysis
70J25 Stability
70J30 Free motions
70J35 Forced motions
70J40 Parametric resonances
70J50 Systems arising from the discretization of structural vibration problems
70J99 None of the above, but in this section
70Kxx Nonlinear dynamics [See also 34Cxx, 37–XX]
70K05 Phase plane analysis, limit cycles
70K20 Stability
70K25 Free motions
70K28 Parametric resonances
70K30 Nonlinear resonances
70K40 Forced motions
70K42 Equilibria and periodic trajectories
70K43 Quasi-periodic motions and invariant tori
70K44 Homoclinic and heteroclinic trajectories
70K45 Normal forms
70K50 Bifurcations and instability
70K55 Transition to stochasticity (chaotic behavior) [See also 37D45]
70K60 General perturbation schemes
70K65 Averaging of perturbations
70K70 Systems with slow and fast motions
70K75 Nonlinear modes
70K99 None of the above, but in this section
70L05 Random vibrations [See also 74H50]
70M20 Orbital mechanics
70P05 Variable mass, rockets
70Q05 Control of mechanical systems [See also 49–XX, 93Cxx, 93Dxx]
70Sxx Classical field theories [See also 37Kxx, 37Lxx, 78–XX, 81Txx, 83–XX]
70S05 Lagrangian formalism and Hamiltonian formalism
70S10 Symmetries and conservation laws
70S15 Yang-Mills and other gauge theories
70S20 More general nonquantum field theories
70S99 None of the above, but in this section

74–XX MECHANICS OF DEFORMABLE SOLIDS

74–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
74–01 Instructional exposition (textbooks, tutorial papers, etc.)
74–02 Research exposition (monographs, survey articles)
74–03 Historical (must also be assigned at least one classification number from Section 01)
74–04 Explicit machine computation and programs (not the theory of computation or programming)
74–05 Experimental work
74–06 Proceedings, conferences, collections, etc.
74Axx Generalities, axiomatics, foundations of continuum mechanics of solids
74A05 Kinematics of deformation
74A10 Stress
74A15 Thermodynamics
74A20 Theory of constitutive functions
74A25 Molecular, statistical, and kinetic theories
74A30 Nonsimple materials
74A35 Polar materials
74A40 Random materials and composite materials
74A45 Theories of fracture and damage
74A50 Structured surfaces and interfaces, coexistent phases
74A55 Theories of friction (tribology)
74A60 Micromechanical theories
74A65 Reactive materials
74A99 None of the above, but in this section
74Bxx Elastic materials
74B05 Classical linear elasticity
74B10 Linear elasticity with initial stresses
74B15 Equations linearized about a deformed state (small deformations superposed on large)
74B20 Nonlinear elasticity
74B99 None of the above, but in this section
74Cxx Plastic materials, materials of stress-rate and internal-variable type
74C05 Small-strain, rate-independent theories (including rigid-plastic and elasto-plastic materials)
74C10 Small-strain, rate-dependent theories (including theories of viscoplasticity)
74C15 Large-strain, rate-independent theories (including nonlinear plasticity)
74C20 Large-strain, rate-dependent theories
74C99 None of the above, but in this section
74Dxx Materials of strain-rate type and history type, other materials with memory (including elastic materials with viscous damping, various viscoelastic materials)
74D05 Linear constitutive equations
74D10 Nonlinear constitutive equations
74D99 None of the above, but in this section
74Exx Material properties given special treatment
74E05 Inhomogeneity
74E10 Anisotropy
74E15 Crystalline structure
74E20 Granularity
74E25 Texture
74E30 Composite and mixture properties
74E35 Random structure
74E40 Chemical structure
74E99 None of the above, but in this section
74Fxx Coupling of solid mechanics with other effects
74F05 Thermal effects
74F10 Fluid-solid interactions (including aero- and hydro-elasticity, porosity, etc.)
74F15 Electromagnetic effects
74F20 Mixture effects
74F25 Chemical and reactive effects
74F99 None of the above, but in this section
74Gxx Equilibrium (steady-state) problems
74G05 Explicit solutions
74G10 Analytic approximation of solutions (perturbation methods, asymptotic methods, series, etc.)
74G15 Numerical approximation of solutions
74G20 Local existence of solutions (near a given solution)
74G25 Global existence of solutions
74G30 Uniqueness of solutions
74G35 Multiplicity of solutions
74G40 Regularity of solutions
74G45 Bounds for solutions
74G50 Saint-Venant's principle
74G55 Qualitative behavior of solutions
74G60 Bifurcation and buckling
74G65 Energy minimization
74G70 Stress concentrations, singularities
74G75 Inverse problems
74G99 None of the above, but in this section
74Hxx Dynamical problems
74H05 Explicit solutions
74H10 Analytic approximation of solutions (perturbation methods, asymptotic methods, series, etc.)
74H15 Numerical approximation of solutions
74H20 Existence of solutions
74H25 Uniqueness of solutions
74H30 Regularity of solutions
74H35 Singularities, blowup, stress concentrations
74H40 Long-time behavior of solutions
74H45 Vibrations
74H50 Random vibrations
74H55 Stability
74H60 Dynamical bifurcation
74H65 Chaotic behavior
74H99 None of the above, but in this section

74Jxx Waves
74J05 Linear waves
74J10 Bulk waves
74J15 Surface waves
74J20 Wave scattering
74J25 Inverse problems
74J30 Nonlinear waves
74J35 Solitary waves
74J40 Shocks and related discontinuities
74J99 None of the above, but in this section
74Kxx Thin bodies, structures
74K05 Strings
74K10 Rods (beams, columns, shafts, arches, rings, etc.)
74K15 Membranes
74K20 Plates
74K25 Shells
74K30 Junctions
74K35 Thin films
74K99 None of the above, but in this section
74Lxx Special subfields of solid mechanics
74L05 Geophysical solid mechanics [See also 86–XX]
74L10 Soil and rock mechanics
74L15 Biomechanical solid mechanics [See also 92C10]
74L99 None of the above, but in this section
74Mxx Special kinds of problems
74M05 Control, switches and devices ("smart materials") [See also 93Cxx]
74M10 Friction
74M15 Contact
74M20 Impact
74M25 Micromechanics
74M99 None of the above, but in this section
74Nxx Phase transformations in solids [See also 74A50, 80Axx, 82B26, 82C26]
74N05 Crystals
74N10 Displacive transformations
74N15 Analysis of microstructure
74N20 Dynamics of phase boundaries
74N25 Transformations involving diffusion
74N30 Problems involving hysteresis
74N99 None of the above, but in this section
74Pxx Optimization [See also 49Qxx]
74P05 Compliance or weight optimization
74P10 Optimization of other properties
74P15 Topological methods
74P20 Geometrical methods
74P99 None of the above, but in this section
74Qxx Homogenization, determination of effective properties
74Q05 Homogenization in equilibrium problems
74Q10 Homogenization and oscillations in dynamical problems
74Q15 Effective constitutive equations
74Q20 Bounds on effective properties
74Q99 None of the above, but in this section
74Rxx Fracture and damage
74R05 Brittle damage
74R10 Brittle fracture
74R15 High-velocity fracture
74R20 Anelastic fracture and damage
74R99 None of the above, but in this section
74Sxx Numerical methods [See also 65–XX, 74G15, 74H15]
74S05 Finite element methods
74S10 Finite volume methods
74S15 Boundary element methods
74S20 Finite difference methods
74S25 Spectral and related methods
74S30 Other numerical methods
74S99 None of the above, but in this section

76–XX FLUID MECHANICS {For general continuum mechanics, see 74Axx, or other parts of 74-XX}
76–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
76–01 Instructional exposition (textbooks, tutorial papers, etc.)
76–02 Research exposition (monographs, survey articles)
76–03 Historical (must also be assigned at least one classification number from Section 01)
76–04 Explicit machine computation and programs (not the theory of computation or programming)
76–05 Experimental work
76–06 Proceedings, conferences, collections, etc.
76Axx Foundations, constitutive equations, rheology
76A02 Foundations of fluid mechanics
76A05 Non-Newtonian fluids
76A10 Viscoelastic fluids
76A15 Liquid crystals [See also 82D30]
76A20 Thin fluid films
76A25 Superfluids (classical aspects)
76A99 None of the above, but in this section
76Bxx Incompressible inviscid fluids
76B03 Existence, uniqueness, and regularity theory [See also 35Q35]
76B07 Free-surface potential flows
76B10 Jets and cavities, cavitation, free-streamline theory, water-entry problems, airfoil and hydrofoil theory, sloshing
76B15 Water waves, gravity waves; dispersion and scattering, nonlinear interaction [See also 35Q30, 35Q53]
76B20 Ship waves
76B25 Solitary waves [See also 35Q51]
76B45 Capillarity (surface tension) [See also 76D45]
76B47 Vortex flows
76B55 Internal waves
76B60 Atmospheric waves [See also 86A10]
76B65 Rossby waves [See also 86A05, 86A10]
76B70 Stratification effects in inviscid fluids
76B75 Flow control and optimization [See also 49Q10, 93C20, 93C95]
76B99 None of the above, but in this section
76Dxx Incompressible viscous fluids
76D03 Existence, uniqueness, and regularity theory [See also 35Q30, 35Q35]
76D05 Navier-Stokes equations [See also 35Q30]
76D06 Statistical solutions of Navier-Stokes and related equations [See also 60H30, 76M35]
76D07 Stokes and related (Oseen, etc.) flows
76D08 Lubrication theory
76D09 Viscous-inviscid interaction
76D10 Boundary-layer theory, separation and reattachment, higher-order effects
76D17 Viscous vortex flows
76D25 Wakes and jets
76D27 Other free-boundary flows; Hele-Shaw flows
76D33 Waves
76D45 Capillarity (surface tension) [See also 76B45]
76D50 Stratification effects in viscous fluids
76D55 Flow control and optimization [See also 49Q10, 93C20, 93C95]
76D99 None of the above, but in this section
76Exx Hydrodynamic stability
76E05 Parallel shear flows
76E06 Convection
76E07 Rotation
76E09 Stability and instability of nonparallel flows
76E15 Absolute and convective instability and stability
76E17 Interfacial stability and instability
76E19 Compressibility effects
76E20 Stability and instability of geophysical and astrophysical flows
76E25 Stability and instability of magnetohydrodynamic and electrohydrodynamic flows
76E30 Nonlinear effects
76E99 None of the above, but in this section
76Fxx Turbulence [See also 37–XX, 60Gxx, 60Jxx]
76F02 Fundamentals
76F05 Isotropic turbulence; homogeneous turbulence
76F06 Transition to turbulence
76F10 Shear flows
76F20 Dynamical systems approach to turbulence [See also 37–XX]
76F25 Turbulent transport, mixing
76F30 Renormalization and other field-theoretical methods [See also 81T99]
76F35 Convective turbulence [See also 76E15, 76Rxx]
76F40 Turbulent boundary layers
76F45 Stratification effects
76F50 Compressibility effects
76F55 Statistical turbulence modeling [See also 76M35]
76F60 k-ε modeling
76F65 Direct numerical and large eddy simulation of turbulence
76F70 Control of turbulent flows
76F99 None of the above, but in this section
76G25 General aerodynamics and subsonic flows
76H05 Transonic flows
76J20 Supersonic flows
76K05 Hypersonic flows
76L05 Shock waves and blast waves [See also 35L67]
76Mxx Basic methods in fluid mechanics [See also 65–XX]
76M10 Finite element methods
76M12 Finite volume methods
76M15 Boundary element methods
76M20 Finite difference methods
76M22 Spectral methods
76M23 Vortex methods
76M25 Other numerical methods
76M27 Visualization algorithms

76M28 Particle methods and lattice-gas methods
76M30 Variational methods
76M35 Stochastic analysis
76M40 Complex-variables methods
76M45 Asymptotic methods, singular perturbations
76M50 Homogenization
76M55 Dimensional analysis and similarity
76M60 Symmetry analysis, Lie group and algebra methods
76M99 None of the above, but in this section
76Nxx Compressible fluids and gas dynamics, general
76N10 Existence, uniqueness, and regularity theory [See also 35L60, 35L65, 35Q30]
76N15 Gas dynamics, general
76N17 Viscous-inviscid interaction
76N20 Boundary-layer theory
76N25 Flow control and optimization
76N99 None of the above, but in this section
76P05 Rarefied gas flows, Boltzmann equation [See also 82B40, 82C40, 82D05]
76Q05 Hydro- and aero-acoustics
76Rxx Diffusion and convection
76R05 Forced convection
76R10 Free convection
76R50 Diffusion [See also 60J60]
76R99 None of the above, but in this section
76S05 Flows in porous media; filtration; seepage
76Txx Two-phase and multiphase flows
76T10 Liquid-gas two-phase flows, bubbly flows
76T15 Dusty-gas two-phase flows
76T20 Suspensions
76T25 Granular flows [See also 74C99, 74E20]
76T30 Three or more component flows
76T99 None of the above, but in this section
76U05 Rotating fluids
76V05 Reaction effects in flows [See also 80A32]
76W05 Magnetohydrodynamics and electrohydrodynamics
76X05 Ionized gas flow in electromagnetic fields; plasmic flow [See also 82D10]
76Y05 Quantum hydrodynamics and relativistic hydrodynamics [See also 83C55, 85A30]
76Zxx Biological fluid mechanics [See also 74F10, 74L15, 92Cxx]
76Z05 Physiological flows [See also 92C35]
76Z10 Biopropulsion in water and in air
76Z99 None of the above, but in this section

78–XX OPTICS, ELECTROMAGNETIC THEORY {For quantum optics, see 81V80}
78–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
78–01 Instructional exposition (textbooks, tutorial papers, etc.)
78–02 Research exposition (monographs, survey articles)
78–03 Historical (must also be assigned at least one classification number from Section 01)
78–04 Explicit machine computation and programs (not the theory of computation or programming)
78–05 Experimental work
78–06 Proceedings, conferences, collections, etc.
78Axx General
78A02 Foundations
78A05 Geometric optics
78A10 Physical optics
78A15 Electron optics
78A20 Space charge waves
78A25 Electromagnetic theory, general
78A30 Electro- and magnetostatics
78A35 Motion of charged particles
78A40 Waves and radiation
78A45 Diffraction, scattering [See also 34E20 for WKB methods]
78A46 Inverse scattering problems
78A48 Composite media; random media
78A50 Antennas, wave-guides
78A55 Technical applications
78A60 Lasers, masers, optical bistability, nonlinear optics [See also 81V80]
78A70 Biological applications [See also 91D30, 92C30]
78A97 Mathematically heuristic optics and electromagnetic theory (must also be assigned at least one other classification number in this section)
78A99 Miscellaneous topics
78Mxx Basic methods
78M05 Method of moments
78M10 Finite element methods
78M15 Boundary element methods
78M20 Finite difference methods
78M25 Other numerical methods
78M30 Variational methods
78M35 Asymptotic analysis
78M40 Homogenization
78M50 Optimization
78M99 None of the above, but in this section

80–XX CLASSICAL THERMODYNAMICS, HEAT TRANSFER {For thermodynamics of solids, see 74A15}
80–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
80–01 Instructional exposition (textbooks, tutorial papers, etc.)
80–02 Research exposition (monographs, survey articles)
80–03 Historical (must also be assigned at least one classification number from Section 01)
80–04 Explicit machine computation and programs (not the theory of computation or programming)
80–05 Experimental work
80–06 Proceedings, conferences, collections, etc.
80Axx Thermodynamics and heat transfer
80A05 Foundations
80A10 Classical thermodynamics, including relativistic
80A17 Thermodynamics of continua [See also 74A15]
80A20 Heat and mass transfer, heat flow
80A22 Stefan problems, phase changes, etc. [See also 74Nxx]
80A23 Inverse problems
80A25 Combustion
80A30 Chemical kinetics [See also 76V05, 92C45, 92E20]
80A32 Chemically reacting flows [See also 92C45, 92E20]
80A50 Chemistry (general) [See mainly 92Exx]
80A99 None of the above, but in this section
80Mxx Basic methods
80M10 Finite element methods
80M15 Boundary element methods
80M20 Finite difference methods
80M25 Other numerical methods
80M30 Variational methods
80M35 Asymptotic analysis
80M40 Homogenization
80M50 Optimization
80M99 None of the above, but in this section

81–XX QUANTUM THEORY
81–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
81–01 Instructional exposition (textbooks, tutorial papers, etc.)
81–02 Research exposition (monographs, survey articles)
81–03 Historical (must also be assigned at least one classification number from Section 01)
81–04 Explicit machine computation and programs (not the theory of computation or programming)
81–05 Experimental papers
81–06 Proceedings, conferences, collections, etc.
81–08 Computational methods
81Pxx Axiomatics, foundations, philosophy
81P05 General and philosophical
81P10 Logical foundations of quantum mechanics; quantum logic [See also 03G12, 06C15]
81P15 Quantum measurement theory
81P20 Stochastic mechanics (including stochastic electrodynamics)
81P68 Quantum computation and quantum cryptography [See also 68Q05, 94A60]
81P99 None of the above, but in this section
81Qxx General mathematical topics and methods in quantum theory
81Q05 Closed and approximate solutions to the Schrödinger, Dirac, Klein-Gordon and other quantum-mechanical equations
81Q10 Selfadjoint operator theory in quantum theory, including spectral analysis
81Q15 Perturbation theories for operators and differential equations
81Q20 Semiclassical techniques including WKB and Maslov methods
81Q30 Feynman integrals and graphs; applications of algebraic topology and algebraic geometry [See also 14D05, 32S40]
81Q40 Bethe-Salpeter and other integral equations
81Q50 Quantum chaos [See also 37Dxx]
81Q60 Supersymmetric quantum mechanics
81Q70 Differential-geometric methods, including holonomy, Berry and Hannay phases, etc.
81Q99 None of the above, but in this section
81Rxx Groups and algebras in quantum theory
81R05 Finite-dimensional groups and algebras motivated by physics and their representations [See also 20C35, 22E70]
81R10 Infinite-dimensional groups and algebras motivated by physics, including Virasoro, Kac-Moody, W-algebras and other current algebras and their representations [See also 17B65, 17B67, 22E65, 22E67, 22E70]
81R12 Relations with integrable systems [See also 17Bxx, 37J35]
81R15 Operator algebra methods [See also 46Lxx, 81T05]

81R20 Covariant wave equations
81R25 Spinor and twistor methods [See also 32L25]
81R30 Coherent states [See also 22E45]; squeezed states [See also 81V80]
81R40 Symmetry breaking
81R50 Quantum groups and related algebraic methods [See also 16W35, 17B37]
81R60 Noncommutative geometry
81R99 None of the above, but in this section
81Sxx General quantum mechanics and problems of quantization
81S05 Commutation relations and statistics
81S10 Geometry and quantization, symplectic methods [See also 53D50]
81S20 Stochastic quantization
81S25 Quantum stochastic calculus
81S30 Phase space methods including Wigner distributions, etc.
81S40 Path integrals [See also 58D30]
81S99 None of the above, but in this section
81Txx Quantum field theory; related classical field theories [See also 70Sxx]
81T05 Axiomatic quantum field theory; operator algebras
81T08 Constructive quantum field theory
81T10 Model quantum field theories
81T13 Yang-Mills and other gauge theories [See also 53C07, 58E15]
81T15 Perturbative methods of renormalization
81T16 Nonperturbative methods of renormalization
81T17 Renormalization group methods
81T18 Feynman diagrams
81T20 Quantum field theory on curved space backgrounds
81T25 Quantum field theory on lattices
81T27 Continuum limits
81T30 String and superstring theories; other extended objects (e.g., branes) [See also 83E30]
81T40 Two-dimensional field theories, conformal field theories, etc.
81T45 Topological field theories [See also 57R56, 58Dxx]
81T50 Anomalies
81T60 Supersymmetric field theories
81T70 Quantization in field theory; cohomological methods [See also 58D29]
81T75 Noncommutative geometry methods [See also 46L85, 46L87, 58B34]
81T80 Simulation and numerical modeling
81T99 None of the above, but in this section
81Uxx Scattering theory [See also 34A55, 34L25, 34L40, 35P25, 47A40]
81U05 2-body potential scattering theory [See also 34E20 for WKB methods]
81U10 n-body potential scattering theory
81U15 Exactly and quasi-solvable systems
81U20 S-matrix theory, etc.
81U30 Dispersion theory, dispersion relations
81U40 Inverse scattering problems
81U99 None of the above, but in this section
81Vxx Applications to specific physical systems
81V05 Strong interaction, including quantum chromodynamics
81V10 Electromagnetic interaction; quantum electrodynamics
81V15 Weak interaction
81V17 Gravitational interaction [See also 83Cxx and 83Exx]
81V19 Other fundamental interactions
81V22 Unified theories
81V25 Other elementary particle theory
81V35 Nuclear physics
81V45 Atomic physics
81V55 Molecular physics [See also 92E10]
81V70 Many-body theory; quantum Hall effect
81V80 Quantum optics
81V99 None of the above, but in this section

82–XX STATISTICAL MECHANICS, STRUCTURE OF MATTER

82–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
82–01 Instructional exposition (textbooks, tutorial papers, etc.)
82–02 Research exposition (monographs, survey articles)
82–03 Historical (must also be assigned at least one classification number from Section 01)
82–04 Explicit machine computation and programs (not the theory of computation or programming)
82–05 Experimental papers
82–06 Proceedings, conferences, collections, etc.
82–08 Computational methods
82Bxx Equilibrium statistical mechanics
82B03 Foundations
82B05 Classical equilibrium statistical mechanics (general)
82B10 Quantum equilibrium statistical mechanics (general)
82B20 Lattice systems (Ising, dimer, Potts, etc.) and systems on graphs
82B21 Continuum models (systems of particles, etc.)
82B23 Exactly solvable models; Bethe ansatz
82B24 Interface problems; diffusion-limited aggregation
82B26 Phase transitions (general)
82B27 Critical phenomena
82B28 Renormalization group methods [See also 81T17]
82B30 Statistical thermodynamics [See also 80–XX]
82B31 Stochastic methods
82B35 Irreversible thermodynamics, including Onsager-Machlup theory [See also 92E20]
82B40 Kinetic theory of gases
82B41 Random walks, random surfaces, lattice animals, etc. [See also 60G50, 82C41]
82B43 Percolation [See also 60K35]
82B44 Disordered systems (random Ising models, random Schrödinger operators, etc.)
82B80 Numerical methods (Monte Carlo, series resummation, etc.) [See also 65–XX, 81T80]
82B99 None of the above, but in this section
82Cxx Time-dependent statistical mechanics (dynamic and nonequilibrium)
82C03 Foundations
82C05 Classical dynamic and nonequilibrium statistical mechanics (general)
82C10 Quantum dynamics and nonequilibrium statistical mechanics (general)
82C20 Dynamic lattice systems (kinetic Ising, etc.) and systems on graphs
82C21 Dynamic continuum models (systems of particles, etc.)
82C22 Interacting particle systems [See also 60K35]
82C23 Exactly solvable dynamic models [See also 37K60]
82C24 Interface problems; diffusion-limited aggregation
82C26 Dynamic and nonequilibrium phase transitions (general)
82C27 Dynamic critical phenomena
82C28 Dynamic renormalization group methods [See also 81T17]
82C31 Stochastic methods (Fokker-Planck, Langevin, etc.) [See also 60H10]
82C32 Neural nets [See also 68T05, 91E40, 92B20]
82C35 Irreversible thermodynamics, including Onsager-Machlup theory
82C40 Kinetic theory of gases
82C41 Dynamics of random walks, random surfaces, lattice animals, etc. [See also 60G50]
82C43 Time-dependent percolation [See also 60K35]
82C44 Dynamics of disordered systems (random Ising systems, etc.)
82C70 Transport processes
82C80 Numerical methods (Monte Carlo, series resummation, etc.)
82C99 None of the above, but in this section
82Dxx Applications to specific types of physical systems
82D05 Gases
82D10 Plasmas
82D15 Liquids
82D20 Solids
82D25 Crystals {For crystallographic group theory, see 20H15}
82D30 Random media, disordered materials (including liquid crystals and spin glasses)
82D35 Metals
82D37 Semiconductors
82D40 Magnetic materials
82D45 Ferroelectrics
82D50 Superfluids
82D55 Superconductors
82D60 Polymers
82D75 Nuclear reactor theory; neutron transport
82D99 None of the above, but in this section

83–XX RELATIVITY AND GRAVITATIONAL THEORY

83–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
83–01 Instructional exposition (textbooks, tutorial papers, etc.)
83–02 Research exposition (monographs, survey articles)
83–03 Historical (must also be assigned at least one classification number from Section 01)
83–04 Explicit machine computation and programs (not the theory of computation or programming)
83–05 Experimental work
83–06 Proceedings, conferences, collections, etc.
83–08 Computational methods
83A05 Special relativity
83B05 Observational and experimental questions
83Cxx General relativity
83C05 Einstein's equations (general structure, canonical formalism, Cauchy problems)
83C10 Equations of motion
83C15 Exact solutions
83C20 Classes of solutions; algebraically special solutions, metrics with symmetries
83C22 Einstein-Maxwell equations
83C25 Approximation procedures, weak fields
83C27 Lattice gravity, Regge calculus and other discrete methods
83C30 Asymptotic procedures (radiation, news functions, $\mathscr{H}$-spaces, etc.)
83C35 Gravitational waves
83C40 Gravitational energy and conservation laws; groups of motions
83C45 Quantization of the gravitational field

83C47 Methods of quantum field theory [See also 81T20]
83C50 Electromagnetic fields
83C55 Macroscopic interaction of the gravitational field with matter (hydrodynamics, etc.)
83C57 Black holes
83C60 Spinor and twistor methods; Newman-Penrose formalism
83C65 Methods of noncommutative geometry [See also 58B34]
83C75 Space-time singularities, cosmic censorship, etc.
83C80 Analogues in lower dimensions
83C99 None of the above, but in this section
83D05 Relativistic gravitational theories other than Einstein's, including asymmetric field theories
83Exx Unified, higher-dimensional and super field theories
83E05 Geometrodynamics
83E15 Kaluza-Klein and other higher-dimensional theories
83E30 String and superstring theories [See also 81T30]
83E50 Supergravity
83E99 None of the above, but in this section
83F05 Cosmology

85-XX ASTRONOMY AND ASTROPHYSICS {For celestial mechanics, see 70F15}
85-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
85-01 Instructional exposition (textbooks, tutorial papers, etc.)
85-02 Research exposition (monographs, survey articles)
85-03 Historical (must also be assigned at least one classification number from Section 01)
85-04 Explicit machine computation and programs (not the theory of computation or programming)
85-05 Experimental work
85-06 Proceedings, conferences, collections, etc.
85-08 Computational methods
85A04 General
85A05 Galactic and stellar dynamics
85A15 Galactic and stellar structure
85A20 Planetary atmospheres
85A25 Radiative transfer
85A30 Hydrodynamic and hydromagnetic problems [See also 76Y05]
85A35 Statistical astronomy
85A40 Cosmology {For relativistic cosmology, see 83F05}
85A99 Miscellaneous topics

86-XX GEOPHYSICS [See also 76U05, 76V05]
86-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
86-01 Instructional exposition (textbooks, tutorial papers, etc.)
86-02 Research exposition (monographs, survey articles)
86-03 Historical (must also be assigned at least one classification number from Section 01)
86-04 Explicit machine computation and programs (not the theory of computation or programming)
86-05 Experimental work
86-06 Proceedings, conferences, collections, etc.
86-08 Computational methods
86A04 General
86A05 Hydrology, hydrography, oceanography [See also 76Bxx, 76E20, 76Q05, 76Rxx, 76U05]
86A10 Meteorology and atmospheric physics [See also 76Bxx, 76E20, 76N15, 76Q05, 76Rxx, 76U05]
86A15 Seismology
86A17 Global dynamics, earthquake problems
86A20 Potentials, prospecting
86A22 Inverse problems [See also 35R30]
86A25 Geo-electricity and geomagnetism [See also 76W05, 78A25]
86A30 Geodesy, mapping problems
86A32 Geostatistics
86A40 Glaciology
86A60 Geological problems
86A99 Miscellaneous topics

90-XX OPERATIONS RESEARCH, MATHEMATICAL PROGRAMMING
90-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
90-01 Instructional exposition (textbooks, tutorial papers, etc.)
90-02 Research exposition (monographs, survey articles)
90-03 Historical (must also be assigned at least one classification number from Section 01)
90-04 Explicit machine computation and programs (not the theory of computation or programming)
90-06 Proceedings, conferences, collections, etc.
90-08 Computational methods
90Bxx Operations research and management science
90B05 Inventory, storage, reservoirs
90B06 Transportation, logistics
90B10 Network models, deterministic
90B15 Network models, stochastic
90B18 Communication networks [See also 68M10, 94A05]
90B20 Traffic problems
90B22 Queues and service [See also 60K25, 68M20]
90B25 Reliability, availability, maintenance, inspection [See also 60K10, 62N05]
90B30 Production models
90B35 Scheduling theory, deterministic [See also 68M20]
90B36 Scheduling theory, stochastic [See also 68M20]
90B40 Search theory
90B50 Management decision making, including multiple objectives [See also 90C31, 91A35, 91B06]
90B60 Marketing, advertising [See also 91B60]
90B70 Theory of organizations, manpower planning [See also 91D35]
90B80 Discrete location and assignment [See also 90C10]
90B85 Continuous location
90B90 Case-oriented studies
90B99 None of the above, but in this section
90Cxx Mathematical programming [See also 49Mxx, 65Kxx]
90C05 Linear programming
90C06 Large-scale problems
90C08 Special problems of linear programming (transportation, multi-index, etc.)
90C09 Boolean programming
90C10 Integer programming
90C11 Mixed integer programming
90C15 Stochastic programming
90C20 Quadratic programming
90C22 Semidefinite programming
90C25 Convex programming
90C26 Nonconvex programming
90C27 Combinatorial optimization
90C29 Multi-objective and goal programming
90C30 Nonlinear programming
90C31 Sensitivity, stability, parametric optimization
90C32 Fractional programming
90C33 Complementarity problems
90C34 Semi-infinite programming
90C35 Programming involving graphs or networks [See also 90C27]
90C39 Dynamic programming [See also 49L20]
90C40 Markov and semi-Markov decision processes
90C46 Optimality conditions, duality [See also 49N15]
90C47 Minimax problems [See also 49K35]
90C48 Programming in abstract spaces
90C49 Extreme-point and pivoting methods
90C51 Interior-point methods
90C52 Methods of reduced gradient type
90C53 Methods of quasi-Newton type
90C55 Methods of successive quadratic programming type
90C56 Derivative-free methods
90C57 Polyhedral combinatorics, branch-and-bound, branch-and-cut
90C59 Approximation methods and heuristics
90C60 Abstract computational complexity for mathematical programming problems [See also 68Q25]
90C70 Fuzzy programming
90C90 Applications of mathematical programming
90C99 None of the above, but in this section

91-XX GAME THEORY, ECONOMICS, SOCIAL AND BEHAVIORAL SCIENCES
91-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
91-01 Instructional exposition (textbooks, tutorial papers, etc.)
91-02 Research exposition (monographs, survey articles)
91-03 Historical (must also be assigned at least one classification number from section 01)
91-04 Explicit machine computation and programs (not the theory of computation or programming)
91-06 Proceedings, conferences, collections, etc.
91-08 Computational methods
91Axx Game theory
91A05 2-person games
91A06 n-person games, $n > 2$
91A10 Noncooperative games
91A12 Cooperative games
91A13 Games with infinitely many players
91A15 Stochastic games
91A18 Games in extensive form
91A20 Multistage and repeated games
91A22 Evolutionary games
91A23 Differential games [See also 49N70]
91A24 Positional games (pursuit and evasion, etc.) [See also 49N75]
91A25 Dynamic games
91A26 Rationality, learning

91A28 Signaling, communication
91A30 Utility theory for games [See also 91B16]
91A35 Decision theory for games [See also 62Cxx, 91B06, 90B50]
91A40 Game-theoretic models
91A43 Games involving graphs
91A44 Games involving topology or set theory
91A46 Combinatorial games
91A50 Discrete-time games
91A55 Games of timing
91A60 Probabilistic games; gambling
91A65 Hierarchical games
91A70 Spaces of games
91A80 Applications of game theory
91A90 Experimental studies
91A99 None of the above, but in this section
91Bxx Mathematical economics {For econometrics, see 62P20}
91B02 Fundamental topics (basic mathematics, methodology; applicable to economics in general)
91B06 Decision theory [See also 62Cxx, 90B50, 91A35]
91B08 Individual preferences
91B10 Group preferences
91B12 Voting theory
91B14 Social choice
91B16 Utility theory
91B18 Public goods
91B24 Price theory and market structure
91B26 Market models (auctions, bargaining, bidding, selling, etc.)
91B28 Finance, portfolios, investment
91B30 Risk theory, insurance
91B32 Resource and cost allocation
91B38 Production theory, theory of the firm
91B40 Labor market, contracts
91B42 Consumer behavior, demand theory
91B44 Informational economics
91B50 Equilibrium: general theory
91B52 Special types of equilibria
91B54 Special types of economies
91B60 General economic models, trade models
91B62 Dynamic economic models, growth models
91B64 Macro-economic models (monetary models, models of taxation)
91B66 Multisectoral models
91B68 Matching models
91B70 Stochastic models
91B72 Spatial models
91B74 Models of real-world systems
91B76 Environmental economics (natural resource models, harvesting, pollution, etc.)
91B82 Statistical methods; economic indices and measures
91B84 Economic time series analysis [See also 62M10]
91B99 None of the above, but in this section
91Cxx Social and behavioral sciences: general topics {For statistics, see 62-XX}
91C05 Measurement theory
91C15 One- and multidimensional scaling
91C20 Clustering [See also 62D05]
91C99 None of the above, but in this section
91Dxx Mathematical sociology (including anthropology)
91D10 Models of societies, social and urban evolution
91D20 Mathematical geography and demography
91D25 Spatial models [See also 91B72]
91D30 Social networks
91D35 Manpower systems [See also 91B40, 90B70]
91D99 None of the above, but in this section
91Exx Mathematical psychology
91E10 Cognitive psychology
91E30 Psychophysics and psychophysiology; perception
91E40 Memory and learning [See also 68T05]
91E45 Measurement and performance
91E99 None of the above, but in this section
91Fxx Other social and behavioral sciences (mathematical treatment)
91F10 History, political science
91F20 Linguistics [See also 03B65, 68T50]
91F99 None of the above, but in this section

92-XX BIOLOGY AND OTHER NATURAL SCIENCES
92-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
92-01 Instructional exposition (textbooks, tutorial papers, etc.)
92-02 Research exposition (monographs, survey articles)
92-03 Historical (must also be assigned at least one classification number from Section 01)
92-04 Explicit machine computation and programs (not the theory of computation or programming)
92-06 Proceedings, conferences, collections, etc.
92-08 Computational methods
92Bxx Mathematical biology in general
92B05 General biology and biomathematics
92B10 Taxonomy, statistics
92B15 General biostatistics [See also 62P10]
92B20 Neural networks, artificial life and related topics [See also 68T05, 82C32, 94Cxx]
92B99 None of the above, but in this section
92Cxx Physiological, cellular and medical topics
92C05 Biophysics
92C10 Biomechanics [See also 74L15]
92C15 Developmental biology, pattern formation
92C17 Cell movement (chemotaxis, etc.)
92C20 Neural biology
92C30 Physiology (general)
92C35 Physiological flow [See also 76Z05]
92C37 Cell biology
92C40 Biochemistry, molecular biology
92C45 Kinetics in biochemical problems (pharmacokinetics, enzyme kinetics, etc.) [See also 80A30]
92C50 Medical applications (general)
92C55 Biomedical imaging and signal processing [See also 44A12, 65R10]
92C60 Medical epidemiology
92C80 Plant biology
92C99 None of the above, but in this section
92Dxx Genetics and population dynamics
92D10 Genetics {For genetic algebras, see 17D92}
92D15 Problems related to evolution
92D20 Protein sequences, DNA sequences
92D25 Population dynamics (general)
92D30 Epidemiology
92D40 Ecology
92D50 Animal behavior
92D99 None of the above, but in this section
92Exx Chemistry {For biochemistry, see 92C40}
92E10 Molecular structure (graph-theoretic methods, methods of differential topology, etc.)
92E20 Classical flows, reactions, etc. [See also 80A30, 80A32]
92E99 None of the above, but in this section
92F05 Other natural sciences

93-XX SYSTEMS THEORY; CONTROL {For optimal control, see 49-XX}
93-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
93-01 Instructional exposition (textbooks, tutorial papers, etc.)
93-02 Research exposition (monographs, survey articles)
93-03 Historical (must also be assigned at least one classification number from Section 01)
93-04 Explicit machine computation and programs (not the theory of computation or programming)
93-06 Proceedings, conferences, collections, etc.
93Axx General
93A05 Axiomatic system theory
93A10 General systems
93A13 Hierarchical systems
93A14 Decentralized systems
93A15 Large scale systems
93A30 Mathematical modeling (models of systems, model-matching, etc.)
93A99 None of the above, but in this section
93Bxx Controllability, observability, and system structure
93B03 Attainable sets
93B05 Controllability
93B07 Observability
93B10 Canonical structure
93B11 System structure simplification
93B12 Variable structure systems
93B15 Realizations from input-output data
93B17 Transformations
93B18 Linearizations
93B20 Minimal systems representations
93B25 Algebraic methods
93B27 Geometric methods (including algebro-geometric)
93B28 Operator-theoretic methods [See also 47A48, 47A57, 47B35, 47N70]
93B29 Differential-geometric methods
93B30 System identification
93B35 Sensitivity (robustness)
93B36 H^∞-control
93B40 Computational methods
93B50 Synthesis problems
93B51 Design techniques (robust design, computer-aided design, etc.)
93B52 Feedback control
93B55 Pole and zero placement problems

93B60 Eigenvalue problems
93B99 None of the above, but in this section
93Cxx Control systems, guided systems
93C05 Linear systems
93C10 Nonlinear systems
93C15 Systems governed by ordinary differential equations [See also 34H05]
93C20 Systems governed by partial differential equations [See also 35B37]
93C23 Systems governed by functional-differential equations [See also 34K35]
93C25 Systems in abstract spaces
93C30 Systems governed by functional relations other than differential equations
93C35 Multivariable systems
93C40 Adaptive control
93C41 Problems with incomplete information
93C42 Fuzzy control
93C55 Discrete-time systems
93C57 Sampled-data systems
93C62 Digital systems
93C65 Discrete event systems
93C70 Time-scale analysis and singular perturbations
93C73 Perturbations
93C80 Frequency-response methods
93C83 Control problems involving computers (process control, etc.)
93C85 Automated systems (robots, etc.) [See also 68T40, 70B15, 70Q05]
93C95 Applications
93C99 None of the above, but in this section
93Dxx Stability
93D05 Lyapunov and other classical stabilities (Lagrange, Poisson, L^p, l^p, etc.)
93D09 Robust stability
93D10 Popov-type stability of feedback systems
93D15 Stabilization of systems by feedback
93D20 Asymptotic stability
93D21 Adaptive or robust stabilization
93D25 Input-output approaches
93D30 Scalar and vector Lyapunov functions
93D99 None of the above, but in this section
93Exx Stochastic systems and control
93E03 Stochastic systems, general
93E10 Estimation and detection [See also 60G35]
93E11 Filtering [See also 60G35]
93E12 System identification
93E14 Data smoothing
93E15 Stochastic stability
93E20 Optimal stochastic control
93E24 Least squares and related methods
93E25 Other computational methods
93E35 Stochastic learning and adaptive control
93E99 None of the above, but in this section

94–XX INFORMATION AND COMMUNICATION, CIRCUITS
94–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
94–01 Instructional exposition (textbooks, tutorial papers, etc.)
94–02 Research exposition (monographs, survey articles)
94–03 Historical (must also be assigned at least one classification number from Section 01)
94–04 Explicit machine computation and programs (not the theory of computation or programming)
94–06 Proceedings, conferences, collections, etc.
94Axx Communication, information
94A05 Communication theory [See also 60G35, 90B18]
94A08 Image processing (compression, reconstruction, etc.) [See also 68U10]
94A11 Application of orthogonal functions in communication
94A12 Signal theory (characterization, reconstruction, etc.)
94A13 Detection theory
94A14 Modulation and demodulation
94A15 Information theory, general [See also 62B10]
94A17 Measures of information, entropy
94A20 Sampling theory
94A24 Coding theorems (Shannon theory)
94A29 Source coding [See also 68P30]
94A34 Rate-distortion theory
94A40 Channel models
94A45 Prefix, length-variable, comma-free codes [See also 20M35, 68Q45]
94A50 Theory of questionnaires
94A55 Shift register sequences and sequences over finite alphabets
94A60 Cryptography [See also 11T71, 14G50, 68P25]
94A62 Authentication and secret sharing
94A99 None of the above, but in this section
94Bxx Theory of error-correcting codes and error-detecting codes
94B05 Linear codes, general
94B10 Convolutional codes
94B12 Combined modulation schemes (including trellis codes)
94B15 Cyclic codes
94B20 Burst-correcting codes
94B25 Combinatorial codes
94B27 Geometric methods (including applications of algebraic geometry) [See also 11T71, 14G50]
94B30 Majority codes
94B35 Decoding
94B40 Arithmetic codes [See also 11T71, 14G50]
94B50 Synchronization error-correcting codes
94B60 Other types of codes
94B65 Bounds on codes
94B70 Error probability
94B75 Applications of the theory of convex sets and geometry of numbers (covering radius, etc.) [See also 11H31]
94B99 None of the above, but in this section
94Cxx Circuits, networks
94C05 Analytic circuit theory
94C10 Switching theory, application of Boolean algebra; Boolean functions [See also 06E30]
94C12 Fault detection; testing
94C15 Applications of graph theory [See also 05Cxx, 68R10]
94C30 Applications of design theory [See also 05Bxx]
94C99 None of the above, but in this section
94D05 Fuzzy sets and logic (in connection with questions of Section 94) [See also 03B52, 03E72, 28E10]

97–XX MATHEMATICS EDUCATION
97–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
97–01 Instructional exposition (textbooks, tutorial papers, etc.)
97–02 Research exposition (monographs, survey articles)
97–03 Historical (must also be assigned at least one classification number from Section 01)
97–04 Explicit machine computation and programs (not the theory of computation or programming)
97–06 Proceedings, conferences, collections, etc.
97Axx General
97A20 Recreational mathematics [See also 00A08]
97A40 Sociological issues [See also 97C60]
97A80 Standards [See also 97B70]
97A90 Fiction and games
97Bxx Educational policy and educational systems
97B10 Educational research and planning
97B20 General education
97B30 Vocational education
97B40 Higher education
97B50 Teacher education {For research aspects see 97C70}
97B60 Out-of-school education. Adult and further education
97B70 Syllabuses. Curriculum guides, official documents [See also 97A80]
97B99 None of the above, but in this section
97Cxx Psychology of and research in mathematics education
97C20 Affective aspects (motivation, anxiety, persistence, etc.)
97C30 Student learning and thinking (misconceptions, cognitive development, problem solving, etc.)
97C40 Assessment (large scale assessment, validity, reliability, etc.) [See also 97D10]
97C50 Theoretical perspectives (learning theories, epistemology, philosophies of teaching and learning, etc.) [See also 97D20]
97C60 Sociological aspects of learning (culture, group interactions, equity issues, etc.)
97C70 Teachers, and research on teacher education (teacher development, etc.) [See also 97B50]
97C80 Technological tools and other materials in teaching and learning (research on innovations, role in student learning, use of tools by teachers, etc.)
97C90 Teaching and curriculum (innovations, teaching practices, studies of curriculum materials, effective teaching, etc.)
97C99 None of the above, but in this section
97Dxx Education and instruction in mathematics
97D10 Comparative studies on mathematics education [See also 97C40]
97D20 Philosophical and theoretical contributions to mathematical education [See also 97C50]
97D30 Goals of mathematics teaching. Curriculum development
97D40 Teaching methods and classroom techniques. Lesson preparation. Educational principles {For research aspects see 97Cxx}
97D50 Teaching problem solving and heuristic strategies {For research aspects see 97Cxx}
97D60 Achievement control and rating

97D70 Diagnosis, analysis and remediation of learning difficulties and student errors
97D80 Teaching units, draft lessons and master lessons
97D99 None of the above, but in this section
97Uxx Educational material and media. Educational technology
97U20 Analysis of textbooks, development and evaluation of textbooks. Textbook use in the classroom
97U30 Teacher manuals and planning aids
97U40 Problem books; student competitions, examination questions
97U50 Computer assisted instruction and programmed instruction
97U60 Manipulative materials and their use in the classroom {For research aspects see 97C80}
97U70 Technological tools (computers, calculators, software, etc.) and their use in the classroom
97U80 Audiovisual media and their use in instruction
97U99 None of the above, but in this section

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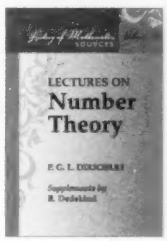
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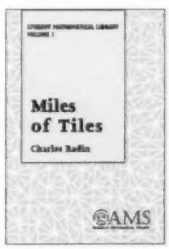
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Miles of Tiles

by Charles Rodin



This is the first volume in the Student Mathematical Library, a new series of undergraduate studies in mathematics. The common thread throughout this book is aperiodic tilings; the best-known example is the "kite and dart" tiling. The presentation uses many different areas of mathematics and physics to analyze the new features of such tilings. The book's multidisciplinary approach and extensive use of illustrations make it useful for a broad mathematical audience.

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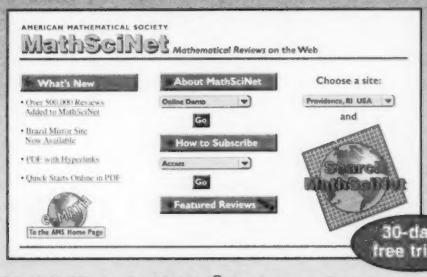
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